

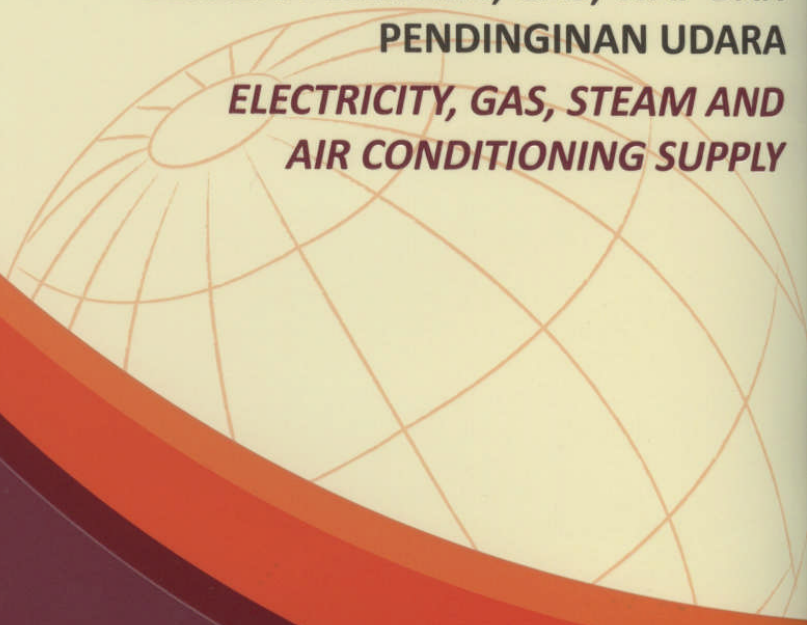
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MALAYSIA

# BANCI EKONOMI *ECONOMIC CENSUS* 2011

BEKALAN ELEKTRIK, GAS, WAP DAN  
PENDINGINAN UDARA  
*ELECTRICITY, GAS, STEAM AND  
AIR CONDITIONING SUPPLY*



BANCI EKONOMI 2011 / ECONOMIC CENSUS 2011



Jabatan Perangkaan  
MALAYSIA

"PENJANA STATISTIK NEGARA"

JABATAN PERANGKAAN MALAYSIA  
DEPARTMENT OF STATISTICS, MALAYSIA



Jabatan Perangkaan  
M A L A Y S I A

# BANCI EKONOMI *ECONOMIC CENSUS*

# 2011

**BEKALAN ELEKTRIK, GAS,  
WAP DAN  
PENDINGINAN UDARA  
*ELECTRICITY, GAS,  
STEAM AND  
AIR CONDITIONING SUPPLY***

## **KATA PENGANTAR**

Laporan ini memuatkan perangkaan bagi sektor Bekalan elektrik, gas, wap dan pendinginan udara. Maklumat yang disediakan adalah berdasarkan Banci Ekonomi yang dijalankan pada tahun 2011 bagi tahun rujukan 2010.

Data yang berkaitan dengan nilai output kasar, input perantaraan, nilai ditambah, bilangan pekerja, gaji & upah dan nilai harta tetap diterbitkan dalam laporan ini. Data tersebut digunakan bagi tujuan membuat perancangan pembangunan dan penggubalan dasar serta bagi pengunjuran dan analisis ekonomi oleh kerajaan dan penyelidik.

Laporan ini mengandungi tiga bahagian. Penemuan daripada hasil bancian dibentangkan di bahagian pertama laporan ini. Aspek teknikal seperti objektif, skop dan liputan serta konsep dan definisi yang digunakan dalam banci ini dimuatkan di bahagian kedua laporan. Jadual-jadual perangkaan terperinci dipaparkan di bahagian ketiga bagi membolehkan pengguna membuat analisis.

Jabatan ingin merakamkan setinggi-tinggi penghargaan dan terima kasih kami kepada semua pihak yang terlibat dalam menyumbang kepada laporan ini. Sebarang ulasan dan cadangan daripada para pengguna untuk menambahbaik laporan ini pada masa hadapan amatlah dihargai.

**DR. HAJI ABDUL RAHMAN BIN HASAN**

Ketua Perangkawan

Malaysia

**Ogos 2012**

## **PREFACE**

*This report presents statistics on Electricity, gas, steam and air conditioning supply sector. The information provided here is gathered through the Economic Census conducted in 2011 for reference year 2010.*

*Data pertaining to value of gross output, intermediate input, value added, number of persons engaged, salaries & wages and value of fixed assets are published in this report. These data are used for planning and policy formulation as well as for economic projection and analysis by the government and researchers.*

*This report consists of three parts. The summary findings of the census is highlighted in the first part of the report. The second part focuses on the technical aspects including the objectives, scope and coverage as well as relevant concepts and definitions used in the census. Detailed statistical tables are included in the third part of the report to facilitate analysis by users.*

*The Department would like to express our appreciation to all parties concerned who have contributed towards this report. Comments and suggestions from users for improvement in future reports are greatly appreciated.*

**DR. HAJI ABDUL RAHMAN BIN HASAN**

*Chief Statistician*

*Malaysia*

**August 2012**



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## Ringkasan Penemuan

## *Summary Findings*

**BEKALAN ELEKTRIK, GAS, WAP DAN  
PENDINGINAN UDARA**

***ELECTRICITY, GAS, STEAM AND  
AIR CONDITIONING SUPPLY***





## 1. PENDAHULUAN

Laporan ini memaparkan perangkaan sektor Bekalan elektrik, gas, wap dan pendinginan udara bagi tahun rujukan 2010 yang disusun daripada Banci Ekonomi 2011.

## 2. PRESTASI SEKTOR BEKALAN ELEKTRIK, GAS, WAP DAN PENDINGINAN UDARA

Indikator utama sektor Bekalan elektrik, gas, wap dan pendinginan udara dalam tahun 2010 adalah seperti ditunjukkan dalam Jadual 1. Nilai output kasar yang dihasilkan oleh sektor ini adalah sebanyak RM34,616.5 juta dengan input perantaraan sebanyak RM24,625.1 juta. Jumlah nilai ditambah yang dicatatkan adalah sebanyak RM9,991.3 juta sementara nilai harta tetap yang dimiliki pula berjumlah RM77,980.0 juta.

**Jadual 1** Indikator utama sektor bekalan elektrik, gas, wap dan pendinginan udara, 2010

Indikator utama	2010
Output kasar (RM juta)	34,616.5
Input perantaraan (RM juta)	24,625.1
Nilai ditambah (RM juta)	9,991.3
Jumlah guna tenaga (orang)	41,101
Nilai harta tetap (RM juta)	77,980.0

Guna tenaga yang terlibat dalam sektor ini bagi tahun 2010 adalah seramai 41,101 orang, di mana 98.6 peratus atau 40,533 orang adalah pekerja bergaji sepenuh masa. Sementara itu, jumlah pekerja bergaji sambilan hanya 524 orang (1.3 peratus), diikuti oleh pemilik yang bekerja, rakan niaga yang aktif dan pekerja keluarga tidak bergaji, 44 orang (0.1 peratus). Pekerja mengikut jantina pula menunjukkan bilangan pekerja lelaki adalah lebih tinggi di setiap kategori berbanding pekerja perempuan (Jadual 2).

**Jadual 2** Guna tenaga mengikut kategori dan jantina, 2010

Kategori	Jumlah	%	Lelaki	%	Perempuan	%
Pemilik yang bekerja, rakan niaga yang aktif dan pekerja keluarga tidak bergaji	44	0.1	36	0.1	8	0.1
Pekerja bergaji sepenuh masa	40,533	98.6	33,537	98.5	6,996	99.1
Pekerja bergaji sambilan	524	1.3	467	1.4	57	0.8
<b>Jumlah</b>	<b>41,101</b>	<b>100.0</b>	<b>34,040</b>	<b>100.0</b>	<b>7,061</b>	<b>100.0</b>

### 3. PRESTASI INDUSTRI BEKALAN ELEKTRIK, GAS, WAP DAN PENDINGINAN UDARA MENGIKUT KUMPULAN

Penyumbang nilai output kasar tertinggi dalam sektor ini adalah Penjanaan, penghantaran dan pengagihan tenaga elektrik, RM31,634.6 juta (91.4 peratus). Sementara itu, Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama dan Bekalan wap & pendinginan udara pula hanya menyumbang kurang daripada 7 peratus nilai output kasar, masing-masing sebanyak RM2,224.5 juta (6.4 peratus) dan RM757.4 juta (2.2 peratus) seperti ditunjukkan dalam Jadual 3.

**Jadual 3** Output kasar mengikut kumpulan dalam sektor bekalan elektrik, gas, wap dan pendinginan udara, 2010

Kod kumpulan	Keterangan	Output kasar (RM juta)	% Sumbangan
351	Penjanaan, penghantaran dan pengagihan tenaga elektrik	31,634.6	91.4
352	Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama	2,224.5	6.4
353	Bekalan wap dan pendinginan udara	757.4	2.2
	<b>Jumlah</b>	<b>34,616.5</b>	<b>100.0</b>

Jadual 4 memaparkan sumbangan jumlah guna tenaga mengikut kumpulan di mana Penjanaan, penghantaran dan pengagihan tenaga elektrik mengupah bilangan pekerja paling ramai, 35,262 orang (85.8 peratus). Kumpulan lain yang selebihnya iaitu Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama dan Bekalan wap & pendinginan udara hanya mengupah 5,839 orang (14.2 peratus).

**Jadual 4** Jumlah guna tenaga mengikut kumpulan dalam sektor bekalan elektrik, gas, wap dan pendinginan udara, 2010

Kod kumpulan	Keterangan	Jumlah guna tenaga	% Sumbangan
351	Penjanaan, penghantaran dan pengagihan tenaga elektrik	35,262	85.8
352	Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama	440	1.1
353	Bekalan wap dan pendinginan udara	5,399	13.1
	<b>Jumlah</b>	<b>41,101</b>	<b>100.0</b>

## 4. GUNA TENAGA

### 4.1 Saiz pekerja

Seperti ditunjukkan dalam Jadual 5, terdapat 93 pertubuhan (64.1 peratus) yang menggaji 50 orang pekerja dan ke bawah. Walaupun menyumbang 64.1 peratus pertubuhan, sumbangan kepada output kasar dan guna tenaga masing-masing adalah hanya 4.3 peratus dan 4.2 peratus. Sebaliknya, pertubuhan besar dengan 151 pekerja ke atas (19 pertubuhan), menyumbangkan 89.9 peratus kepada jumlah guna tenaga dan 72.8 peratus bagi output kasar .

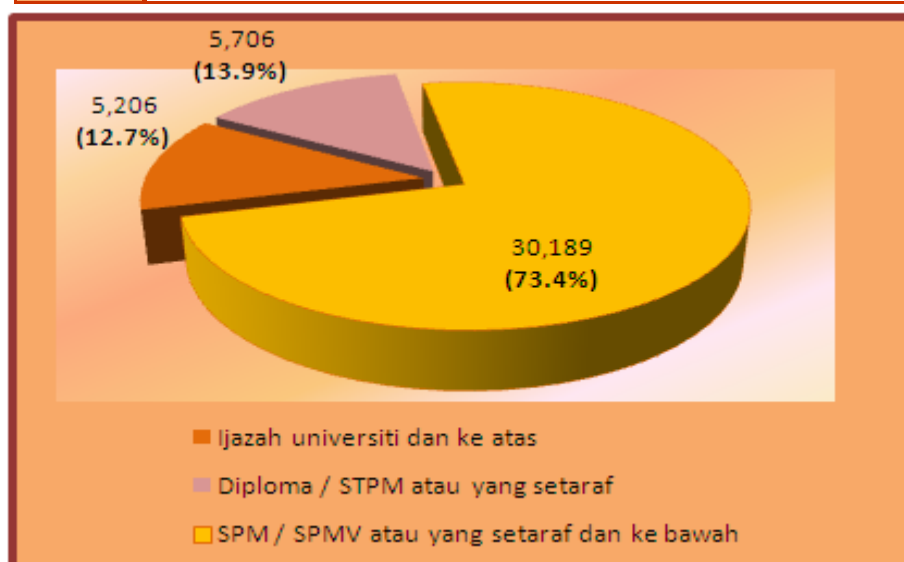
**Jadual 5** Bilangan pertubuhan, output kasar dan jumlah guna tenaga mengikut saiz pekerja, 2010

Saiz pekerja	Bilangan pertubuhan		Output kasar		Jumlah guna tenaga	
	Bilangan	% Sumbangan	RM juta	% Sumbangan	Bilangan	% Sumbangan
50 dan ke bawah	93	64.1	1,492.0	4.3	1,742	4.2
51 - 150	33	22.8	7,909.5	22.9	2,422	5.9
151 dan ke atas	19	13.1	25,215.0	72.8	36,937	89.9
<b>Jumlah</b>	<b>145</b>	<b>100.0</b>	<b>34,616.5</b>	<b>100.0</b>	<b>41,101</b>	<b>100.0</b>

### 4.2 Pekerja mengikut kelulusan akademik

Majoriti pekerja yang terlibat dalam sektor Bekalan elektrik, gas, wap dan pendinginan udara adalah pekerja dengan kelulusan SPM/SPMV atau yang setaraf dan ke bawah iaitu 30,189 orang atau 73.4 peratus daripada jumlah guna tenaga. Pekerja yang mempunyai kelulusan Diploma/STPM atau yang setaraf adalah seramai 5,706 orang (13.9 peratus) sementara pemegang Ijazah universiti dan ke atas adalah berjumlah 5,206 orang (12.7 peratus) seperti digambarkan dalam Carta 1.

**Carta 1** Pekerja mengikut kelulusan akademik, 2010



### 4.3 Gaji & upah dibayar

Taburan gaji & upah bagi pekerja bergaji sepenuh masa mengikut kategori pekerja adalah seperti dalam Jadual 6. Hanya 40,533 orang diambil bekerja dalam sektor ini dengan gaji & upah dibayar berjumlah RM3,011 juta. Teknikal dan penyeliaan mencatatkan bilangan paling ramai iaitu 18,943 orang (46.7 peratus), dengan gaji & upah diterima sebanyak RM1,416.9 juta (47.1 peratus). Ini diikuti oleh Pekerja am, 8,241 orang (20.3 peratus) yang menerima gaji & upah sebanyak RM294.9 juta (9.8 peratus). Sementara itu, Pengurusan, profesional dan eksekutif dengan bilangan yang paling sedikit iaitu 6,466 pekerja atau 16.0 peratus, dibayar purata gaji & upah tertinggi sebanyak RM142,515 setahun.

**Jadual 6** Gaji & upah bagi pekerja bergaji sepenuh masa mengikut kategori pekerja, 2010

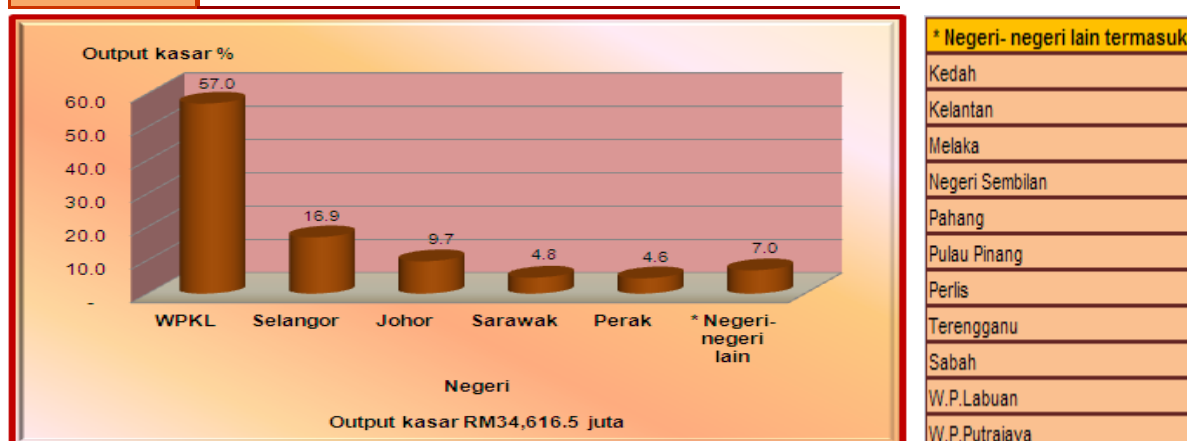
Kategori pekerja	Pekerja bergaji sepenuh masa		Gaji & upah		Purata gaji & upah diterima bagi setahun (RM)
	Bilangan	%	RM juta	%	
Pengurusan, profesional dan eksekutif	6,466	16.0	921.5	30.6	142,515
Teknikal dan penyeliaan	18,943	46.7	1,416.9	47.1	74,800
Perkeranian dan pekerjaan berkaitan	6,883	17.0	377.7	12.5	54,868
Pekerja am	8,241	20.3	294.9	9.8	35,788
<b>Jumlah</b>	<b>40,533</b>	<b>100.0</b>	<b>3,011.0</b>	<b>100.0</b>	<b>74,286</b>

## 5. PRESTASI MENGIKUT NEGERI

### 5.1 Output kasar

W.P. Kuala Lumpur merupakan penyumbang utama nilai output kasar, 57.0 peratus dalam tahun 2010. Ini diikuti oleh Selangor, 16.9 peratus dan Johor, 9.7 peratus. Ketiga-tiga negeri ini menyumbang sebanyak 83.6 peratus manakala baki negeri selebihnya mencatatkan 16.4 peratus output kasar (Carta 2).

**Carta 2** Output kasar mengikut negeri, 2010



\* Negeri-negeri lain termasuk :

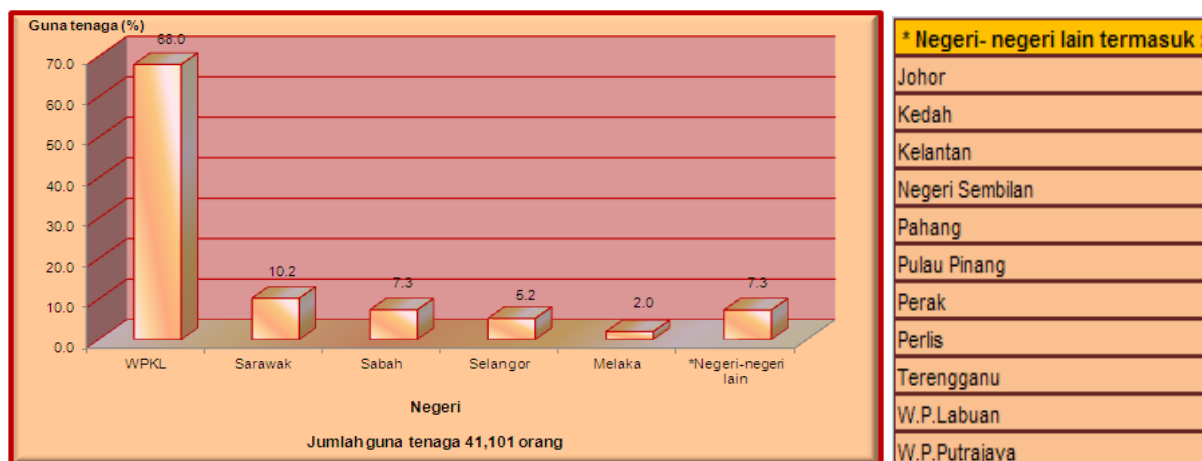
Kedah
Kelantan
Melaka
Negeri Sembilan
Pahang
Pulau Pinang
Perlis
Terengganu
Sabah
W.P.Labuan
W.P.Putrajaya



## 5.2 Guna tenaga

Berdasarkan guna tenaga, W.P. Kuala Lumpur bersama-sama dengan Sarawak dan Sabah merupakan tiga buah negeri yang menyumbangkan 85.5 peratus kepada guna tenaga dalam sektor ini (Carta 3).

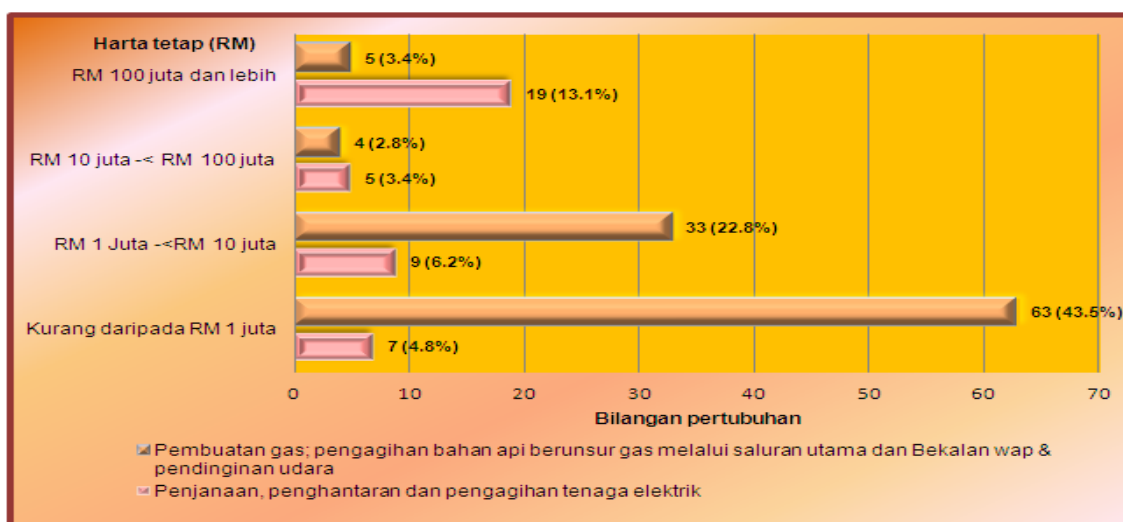
**Carta 3** Guna tenaga mengikut negeri, 2010



## 6. BILANGAN PERTUBUHAN MENGIKUT SAIZ HARTA TETAP

Jumlah harta tetap yang dihasilkan oleh sektor ini adalah sebanyak RM77,980.0 juta. Bagi kumpulan saiz harta tetap RM100 juta dan lebih, subsektor Penjanaan, penghantaran dan pengagihan tenaga elektrik mencatatkan bilangan pertubuhan tertinggi dengan 19 pertubuhan (13.1 peratus), manakala dalam kumpulan saiz harta tetap kurang daripada RM1 juta, subsektor Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama dan Bekalan wap & pendinginan udara mempunyai bilangan tertinggi dengan 63 pertubuhan (43.5 peratus) seperti ditunjukkan dalam Carta 4.

**Carta 4** Bilangan pertubuhan mengikut saiz harta tetap, 2010



## 7. PERTUBUHAN MILIKAN WANITA

**Carta 5**

**Pertubuhan milikan wanita dalam sektor bekalan elektrik, gas, wap dan pendinginan udara, 2010**



Carta 5 menunjukkan hanya 7 pertubuhan (4.8 peratus) dalam sektor ini dimiliki oleh wanita. Didapati bahawa pertubuhan-pertubuhan ini terlibat dalam subsektor Bekalan wap dan pendinginan udara dengan nilai output kasar, RM8.6 juta (0.1 peratus) dan nilai ditambah, RM3.7 juta (0.1 peratus). Sementara itu, bilangan pekerja yang terlibat adalah seramai 110 orang (0.3 peratus) seperti ditunjukkan dalam Carta 6.

**Carta 6**

**Pertubuhan milikan wanita dalam sektor bekalan elektrik, gas, wap dan pendinginan udara, 2010**



## 1. INTRODUCTION

This report presents statistics on Electricity, gas, steam and air conditioning supply sector for reference year 2010 canvassed under the Economic Census 2011.

## 2. PERFORMANCE OF ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY SECTOR

Key indicators of Electricity, gas, steam and air conditioning supply sector in 2010 are as shown in Table 1. The value of gross output generated by this sector was RM34,616.5 million with intermediate input of RM24,625.1 million. Total value added recorded was RM9,991.3 million while the value of fixed assets owned was RM77,980.0 million.

**Table 1** Key indicators of electricity, gas, steam and air conditioning supply sector, 2010

Key indicators	2010
Gross output (RM million)	34,616.5
Intermediate input (RM million)	24,625.1
Value added (RM million)	9,991.3
Employment (persons)	41,101
Value of fixed assets (RM million)	77,980.0

The number of persons engaged in this sector in 2010 was 41,101 persons, of which 98.6 per cent or 40,533 persons were paid full-time employees. Meanwhile, the number of paid part-time employees was only 524 persons (1.3 per cent), followed by working proprietors, active business partners and unpaid family workers, 44 persons (0.1 per cent). Employment by gender indicated that the number of male workers employed was higher in all categories as compared to female workers (Table 2).

**Table 2** Employment by category and gender, 2010

Category	Total	%	Male	%	Female	%
Working proprietors, active business partners and unpaid family workers	44	0.1	36	0.1	8	0.1
Paid full-time employees	40,533	98.6	33,537	98.5	6,996	99.1
Paid part-time employees	524	1.3	467	1.4	57	0.8
<b>Total</b>	<b>41,101</b>	<b>100.0</b>	<b>34,040</b>	<b>100.0</b>	<b>7,061</b>	<b>100.0</b>

### 3. PERFORMANCE OF ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY SECTOR BY GROUPS

The major contributor of gross output in this sector was Electric power generation, transmission and distribution, RM31,634.6 million (91.4 per cent). On the other hand, Manufacture of gas; distribution of gaseous fuels through mains and Steam & air conditioning supply only accounted for less than 7 per cent of gross output with RM2,224.5 million (6.4 per cent) and RM757.4 million (2.2 per cent) respectively as shown in Table 3.

**Table 3** Gross output by groups in electricity, gas, steam and air conditioning supply sector, 2010

Group code	Description	Gross output (RM million)	% Share
351	Electric power generation, transmission and distribution	31,634.6	91.4
352	Manufacture of gas; distribution of gaseous fuels through mains	2,224.5	6.4
353	Steam and air conditioning supply	757.4	2.2
	<b>Total</b>	<b>34,616.5</b>	<b>100.0</b>

Table 4 shows the contribution of total employment by groups whereby Electric power generation, transmission and distribution employed the highest number of workers, 35,262 persons (85.8 per cent). The other remaining groups namely Manufacture of gas; distribution of gaseous fuels through mains and Steam & air conditioning supply only employed 5,839 persons (14.2 per cent).

**Table 4** Total employment by groups in electricity, gas, steam and air conditioning supply sector, 2010

Group code	Description	Total employment	% Share
351	Electric power generation, transmission and distribution	35,262	85.8
352	Manufacture of gas; distribution of gaseous fuels through mains	440	1.1
353	Steam and air conditioning supply	5,399	13.1
	<b>Total</b>	<b>41,101</b>	<b>100.0</b>



## 4. EMPLOYMENT

### 4.1 Employment size

As shown in Table 5, there were 93 establishments (64.1 per cent) which employed 50 employees and below. Despite accounting for 64.1 per cent of establishments, the contribution to gross output and total employment was only 4.3 per cent and 4.2 per cent respectively. On the contrary, large establishments with 151 workers and above (19 establishments), contributed 89.9 per cent to total employment and 72.8 per cent of gross output.

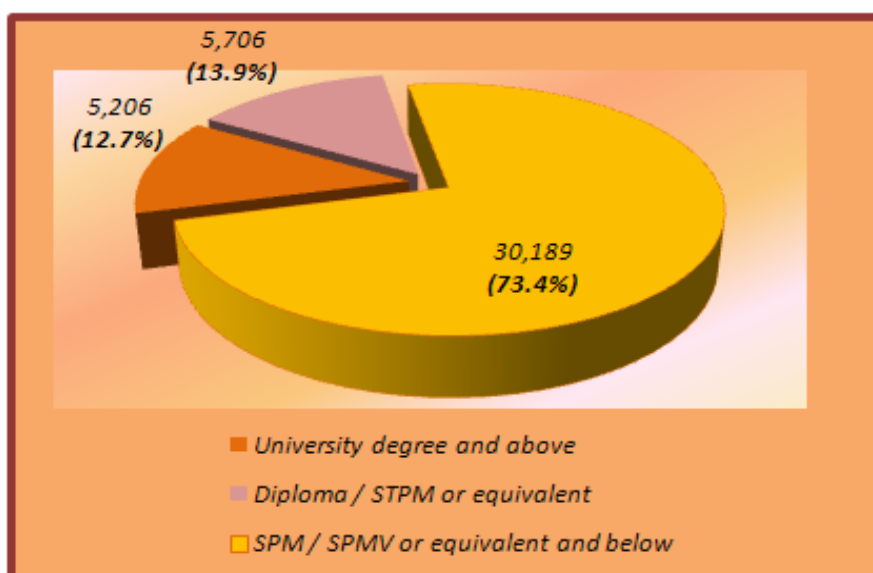
**Table 5** Number of establishments, gross output and total employment by employment size, 2010

Employment size	No. of establishments		Gross output		Total employment	
	Number	% Share	RM million	% Share	Number	% Share
50 and below	93	64.1	1,492.0	4.3	1,742	4.2
51 - 150	33	22.8	7,909.5	22.9	2,422	5.9
151 and above	19	13.1	25,215.0	72.8	36,937	89.9
<b>Total</b>	<b>145</b>	<b>100.0</b>	<b>34,616.5</b>	<b>100.0</b>	<b>41,101</b>	<b>100.0</b>

### 4.2 Employment by academic qualification

The majority of persons engaged in Electricity, gas, steam and air conditioning supply sector was employees with SPM/SPMV or equivalent and below with 30,189 persons or 73.4 per cent of total employment. Employees with Diploma/STPM or equivalent qualification was 5,706 persons (13.9 per cent) while University degree and above was 5,206 persons (12.7 per cent) as illustrated in Chart 1.

**Chart 1** Employment by academic qualification, 2010



### 4.3 Salaries & wages paid

The distribution of salaries and wages for paid full-time employees by category of workers is shown in Table 6. Only 40,533 persons were employed in this sector with salaries & wages paid amounting to RM3,011 million. Technical and supervisory recorded the highest number of 18,943 persons (46.7 per cent), with salaries & wages received was RM1,416.9 million (47.1 per cent). This was followed by General workers, 8,241 persons (20.3 per cent) who received salaries & wages of RM294.9 million (9.8 per cent). Meanwhile, Managerial, professional and executive with the small number of 6,466 workers or 16.0 per cent, were paid the highest average salaries & wages of RM142,515 per annum.

**Table 6** Salaries & wages of paid full-time employees by category of workers, 2010

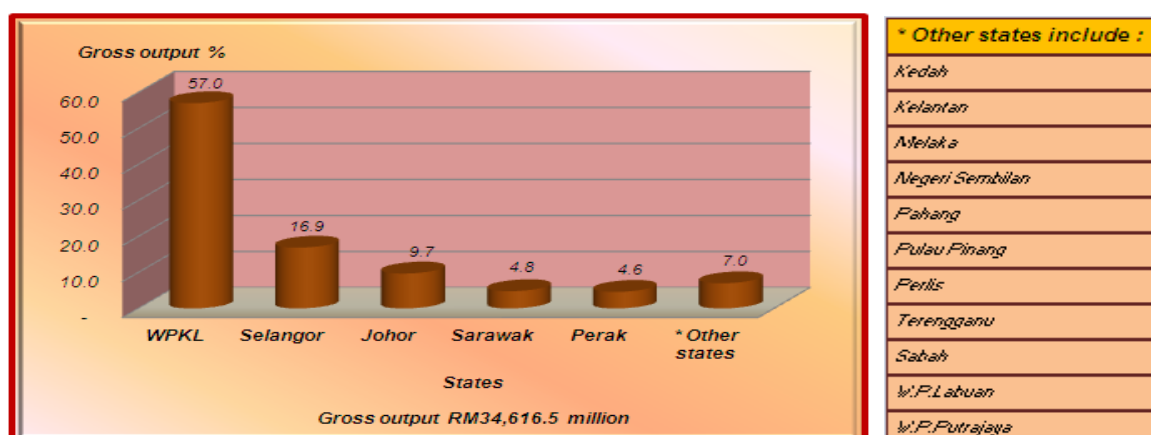
Category of workers	Paid full-time employees		Salaries & wages		Average salaries & wages received per annum (RM)
	Number	%	RM million	%	
Managerial, professional and executive	6,466	16.0	921.5	30.6	142,515
Technical and supervisory	18,943	46.7	1,416.9	47.1	74,800
Clerical and related occupations	6,883	17.0	377.7	12.5	54,868
General workers	8,241	20.3	294.9	9.8	35,788
<b>Total</b>	<b>40,533</b>	<b>100.0</b>	<b>3,011.0</b>	<b>100.0</b>	<b>74,286</b>

## 5. PERFORMANCE BY STATE

### 5.1 Gross Output

W.P. Kuala Lumpur was the main contributor to gross output, 57.0 per cent in 2010. This was followed by Selangor, 16.9 per cent and Johor, 9.7 per cent. These three states accounted for 83.6 per cent while the remaining states recorded 16.4 per cent of gross output (Chart 2).

**Chart 2** Gross output by state, 2010

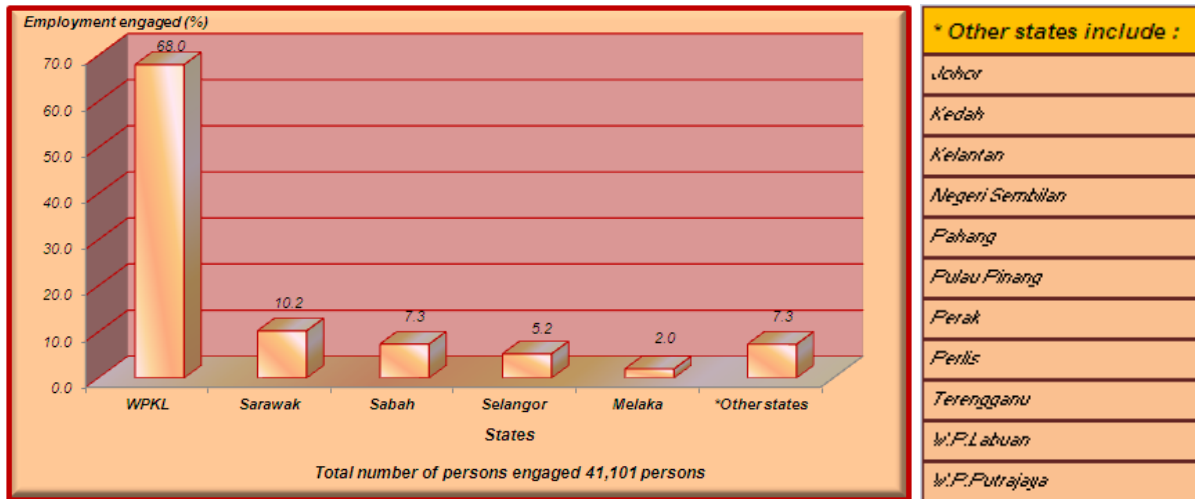




## 5.2 Employment

In terms of employment, W.P. Kuala Lumpur together with Sarawak and Sabah were the three states which accounted for 85.5 per cent of employment in this sector (Chart 3).

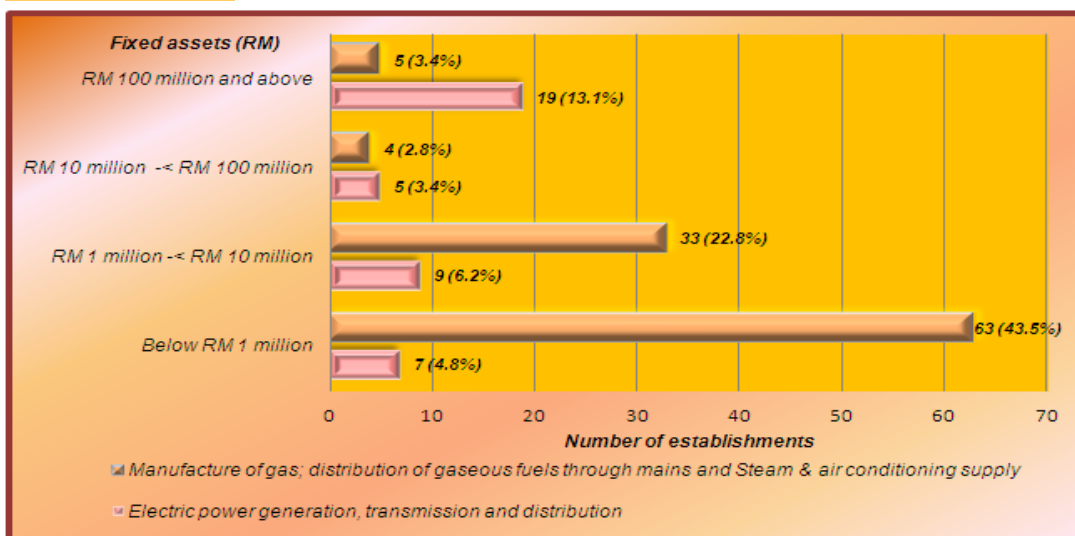
**Chart 3** Employment by state, 2010



## 6. NUMBER OF ESTABLISHMENTS BY FIXED ASSETS SIZE

Total fixed assets generated by this sector was RM77,980.0 million. In the fixed assets size group of RM100 million and above, Electric power generation, transmission and distribution sub-sector recorded the highest number of establishments with 19 (13.1 per cent), while in the fixed assets size group of below RM1 million, Manufacture of gas; distribution of gaseous fuels through mains and Steam & air conditioning supply sub-sectors had the highest number with 63 establishments (43.5 per cent) as shown in Chart 4.

**Chart 4** Number of establishments by fixed assets size, 2010



## 7. WOMEN-OWNED ESTABLISHMENTS

**Chart 5**

**Women-owned establishments in electricity, gas, steam and air conditioning supply sector, 2010**

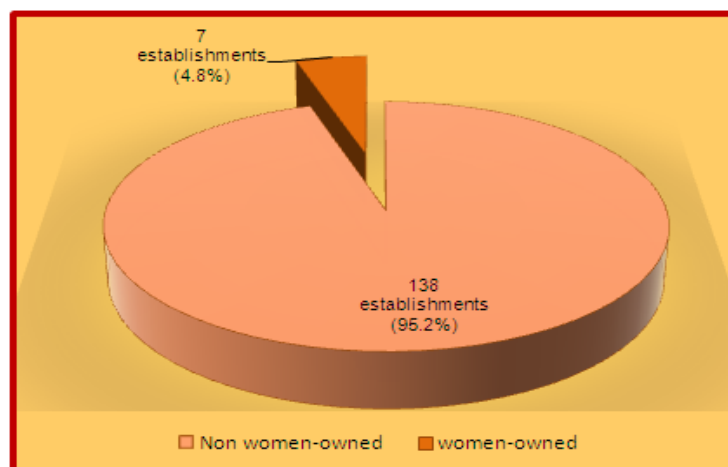
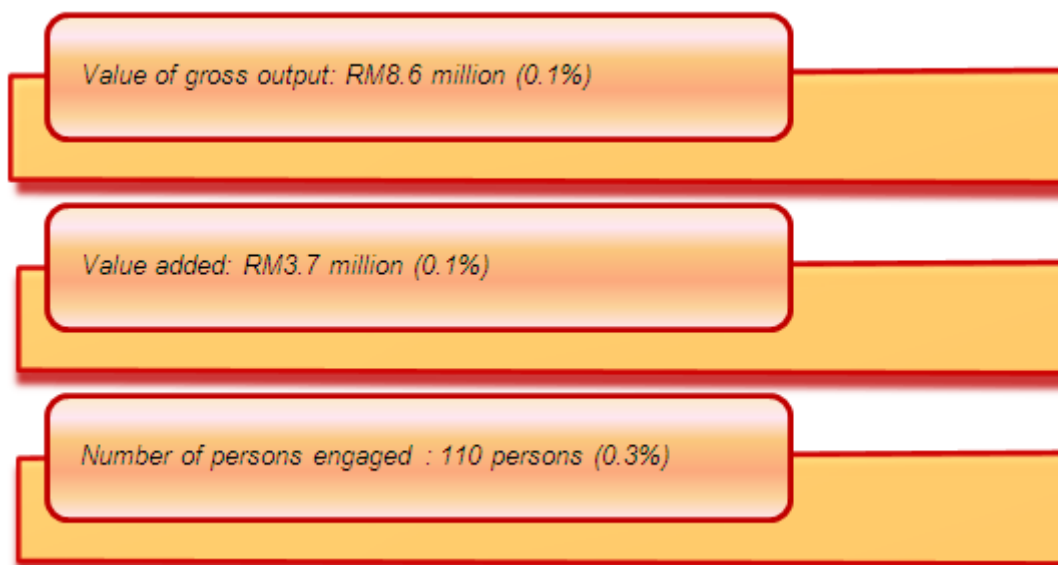


Chart 5 showed that only 7 establishments (4.8 per cent) in this sector were owned by women. It was noted that these establishments were engaged in Steam and air conditioning supply sub-sector with value of gross output, RM8.6 million (0.1 per cent) and value added, RM3.7 million (0.1 per cent). Meanwhile, the number of persons engaged was 110 persons (0.3 per cent) as shown in Chart 6.

**Chart 6**

**Women-owned establishments in electricity, gas, steam and air conditioning supply sector, 2010**





2  
0  
1  
1

**Nota Teknikal**

***Technical Notes***

**BEKALAN ELEKTRIK, GAS, WAP DAN  
PENDINGINAN UDARA**

***ELECTRICITY, GAS, STEAM AND  
AIR CONDITIONING SUPPLY***







- 1. Pendahuluan** Laporan ini memuatkan data sektor Bekalan elektrik, gas, wap dan pendinginan udara bagi tahun 2010. Data tersebut pertama kali dikumpul dan disusun daripada Banci Ekonomi yang dilaksanakan pada tahun 2011.
- 2. Objektif** Objektif utama banci ini adalah untuk mengumpul maklumat tentang pertumbuhan, sumbangan, komposisi dan taburan sektor Bekalan elektrik, gas, wap dan pendinginan udara bagi membantu kerajaan dalam perancangan pembangunan dan penggubalan dasar. Data yang diperoleh dari banci juga memberi maklumat penanda aras dan digunakan dalam penyusunan akaun negara, jadual input-output serta kajian tertentu. Maklumat tersebut juga digunakan oleh sektor swasta dan individu bagi tujuan analisis ekonomi.
- 3. Kuasa perundangan** Banci ini dilaksanakan di bawah peruntukan **Akta Perangkaan 1965 (Disemakperundangan 1989)**. Seksyen 5 di bawah Akta ini menghendaki mana-mana pertubuhan yang beroperasi di Malaysia untuk memberikan maklumat sebenar atau anggaran terbaik kepada Jabatan. Mengikut Akta ini, kandungan soal selidik yang diterima adalah **sulit** dan hanya angka agregat diterbitkan.
- 4. Skop dan liputan** Banci ini meliputi pertubuhan berdaftar yang terlibat dalam aktiviti bekalan elektrik, gas, wap dan pendinginan udara sebagai aktiviti utamanya. Sumber maklumat utama rangka pertubuhan diperoleh daripada Suruhanjaya Syarikat Malaysia (SSM).

Selain daripada SSM, maklumat rangka banci juga dikumpulkan daripada sumber-sumber lain seperti Kementerian Tenaga, Teknologi Hijau dan Air, Suruhanjaya Tenaga, Tenaga Nasional Berhad, *Sabah Electricity Sendirian Berhad* dan *Sarawak Electricity Supply Corporation*. Rangka dikemas kini untuk mengambil kira pertubuhan baru dan sebarang perubahan yang berlaku kepada pertubuhan seperti tutup, tidak beroperasi, perubahan jenis aktiviti, lokasi kilang atau alamat pos.

Liputan banci terdiri daripada 8 industri di peringkat 5-digit bersamaan dengan 3 kumpulan di peringkat 3-digit yang dikelaskan mengikut Piawaian Klasifikasi Industri Malaysia (MSIC), 2008 Ver. 1.0.



Senarai lapan industri tersebut adalah :

- i. Industri 35101 : Operasi kemudahan penjanaan yang menghasilkan tenaga elektrik
- ii. Industri 35102 : Operasi penghantaran, pengagihan dan penjualan elektrik
- iii. Industri 35201 : Pembuatan bahan api berunsur gas yang mempunyai spesifikasi nilai *calorific*, mengikut penulenan, pencampuran dan proses lain dari jenis gas yang lain termasuk gas asli
- iv. Industri 35202 : Pengangkutan, pengagihan dan bekalan semua jenis bahan api berunsur gas melalui sistem saluran utama
- v. Industri 35203 : Penjualan gas kepada pengguna melalui sistem saluran utama
- vi. Industri 35301 : Pengeluaran, pengumpulan dan pengagihan wap dan air panas untuk pemanasan, tenaga dan tujuan lain
- vii. Industri 35302 : Pengeluaran dan pengagih udara dingin, air yang disejukkan bagi tujuan pendinginan
- viii. Industri 35303 : Pengeluaran ais, termasuk ais untuk tujuan makanan dan bukan makanan (cth: pendinginan)

Walau bagaimanapun, terdapat tiga industri (35201, 35203 dan 35301) tidak dapat dikelaskan sebagai aktiviti utama disebabkan tiada pertubuhan yang mewakili industri berkenaan ataupun aktiviti ini dilaporkan sebagai aktiviti sekunder.

#### **5. Metodologi dan respons**

Banci ini dijalankan melalui mel. Responden diberi tempoh satu bulan untuk melengkapkan dan mengembalikan borang soal selidik tersebut kepada Jabatan ini. Selepas tempoh tersebut, kerja luar dijalankan untuk mempercepatkan respons dari pertubuhan selebihnya.



- 6. Unit pelapor** Unit pelapor bagi banci ini ialah **pertubuhan**. Sesebuah pertubuhan ditakrifkan sebagai “satu unit ekonomi yang bergiat di bawah satu hak milik atau penguasaan tunggal, iaitu di bawah satu entiti yang sah. Ia menjalankan satu jenis aktiviti ekonomi utama di satu tempat / lokasi fizikal”. Setiap pertubuhan diberikan klasifikasi industri berdasarkan aktiviti utamanya. Bagi pertubuhan yang menjalankan pelbagai aktiviti, unit yang bergiat dalam aktiviti yang berasingan dalam satu lokasi yang sama terdiri daripada entiti pertubuhan yang berbeza. Oleh itu, setiap cawangan daripada organisasi yang mempunyai pelbagai cawangan di lokasi yang berbeza dari segi konsep dianggap sebagai pertubuhan yang berlainan. Pertubuhan berkenaan diminta memberikan penyata yang berasingan bagi setiap kegiatannya dari segi nilai. Walau bagaimanapun, dari segi praktiknya akaun biasanya disediakan secara berpusat kerana kesukaran untuk memperoleh data yang berasingan bagi setiap unit atau cawangan Entiti atau enterpris ini akan dianggap sebagai satu unit pelapor dan dibenarkan mengemukakan soal selidik yang menggabungkan semua unit atau cawangannya.
- 7. Tahun banci** Tahun banci merujuk kepada tahun pelaksanaan banci.
- 8. Tempoh rujukan** Tempoh rujukan bagi banci ini adalah tahun takwim 2010. Pertubuhan yang mempunyai tahun perakaunan yang berbeza daripada tahun takwim diminta menyediakan laporan mengikut tahun perakaunan atau kewangan yang meliputi sebahagian besar daripada tempoh rujukan.
- 9. Jenis aktiviti** Jenis aktiviti merujuk kepada aktiviti utama dan sekunder. Aktiviti utama merujuk kepada aktiviti yang mana pertubuhan menggunakan sebahagian besar daripada sumbernya atau yang ia memperoleh sebahagian besar daripada pendapatannya. Aktiviti sekunder didefinisikan sebagai aktiviti sampingan kepada aktiviti utama. Klasifikasi industri bagi pertubuhan adalah mengikut aktiviti utamanya berdasarkan kepada Piawaian Klasifikasi Industri Malaysia (MSIC), 2008 Ver. 1.0. MSIC 2008 adalah selaras dengan Klasifikasi Standard Perindustrian Antarabangsa bagi Semua Aktiviti Ekonomi (ISIC), semakan ke-4 Pertubuhan Bangsa-Bangsa Bersatu.



**10. Konsep dan definisi** Konsep dan definisi yang digunakan berasaskan kepada syor Pejabat Perangkaan Pertubuhan Bangsa-Bangsa Bersatu<sup>1</sup>. Konsep berkenaan mengikut amalan yang sudah diterima pakai, yang mana akan memudahkan perbandingan data di peringkat antarabangsa dilaksanakan.

#### 10.1 Takrif bekalan elektrik, gas, wap dan pendinginan udara

Takrif bekalan elektrik, gas, wap dan pendinginan udara yang digunakan dalam banci ini adalah selaras dengan Piawaian Klasifikasi Industri Malaysia (MSIC), 2008 Ver. 1.0 .

"Bekalan elektrik, gas, wap dan pendinginan udara adalah termasuk aktiviti pembekalan tenaga elektrik, gas asli, wap, air panas dan seumpamanya melalui satu infrastruktur (rangkaian) tetap bagi talian, saluran utama dan paip. Dimensi rangkaian ini tidak dapat ditentukan; juga termasuk pengagihan elektrik, gas, wap, air panas dan seumpamanya di kawasan perindustrian atau bangunan tempat kediaman. Oleh itu, seksyen ini termasuk operasi utiliti elektrik dan gas yang menjana, mengawal dan mengagih tenaga elektrik atau gas. Juga termasuk bekalan wap dan pendinginan udara."

#### 10.2 Taraf sah

Bagi tujuan banci ini, taraf sah sesebuah pertubuhan ditakrifkan seperti berikut :

- i. **Hak milik perseorangan** : Ia merujuk kepada perniagaan yang dimiliki dan dijalankan oleh orang perseorangan semata-mata untuk mendapatkan keuntungan sendiri. Pemilik mempunyai hak mutlak atas segala urusan pertubuhannya.
- ii. **Perkongsian** : Ia merujuk kepada sekumpulan individu yang telah bersetuju mengikat kontrak dan menjalankan perniagaan dengan matlamat untuk memperoleh keuntungan. Perniagaan tersebut diuruskan oleh kesemua mereka atau salah seorang daripada mereka yang bertindak mewakili semua pihak. Perkongsian perniagaan ini hendaklah mengandungi ahli sekurang-kurangnya dua orang dan tidak melebihi had maksimum dua puluh orang.

<sup>1</sup> *International Recommendations for Industrial Statistics, United Nations Statistics Division, Statistical Papers, Series M No. 90, United Nations, New York, 2009.*



- iii. **Syarikat sendirian berhad** : Ia merupakan sebuah perbadanan swasta yang ditubuhkan untuk menjalankan perniagaan dengan matlamat untuk mencari keuntungan. Saham dipegang secara tertutup oleh pemegang-pemegang saham yang mempunyai kawalan terhadap operasi syarikat. Ia didaftarkan dengan tanggungan berhad.

Sesebuah syarikat sendirian berhad mempunyai Memorandum dan Artikel Persatuan sendiri, yang antara lain :

- (a) mengehendkan hak untuk memindahkan sahamnya;
  - (b) mengehendkan bilangan pemegang sahamnya di antara dua hingga lima puluh orang (tidak termasuk pekerja syarikat itu dan bekas pekerja yang masih menjadi ahli);
  - (c) melarang sebarang pelawaan kepada orang ramai untuk membeli apa-apa saham atau debentur syarikat itu; dan
  - (d) melarang sebarang pelawaan kepada orang ramai supaya menyimpan wang di syarikat itu bagi sesuatu tempoh yang ditetapkan atau boleh bayar apabila dituntut, dengan atau tanpa faedah.
- iv. **Syarikat awam berhad** : Syarikat awam berhad juga merupakan sebuah perbadanan swasta yang ditubuhkan, dengan tanggungan terhad, oleh sekurang-kurangnya dua orang untuk menjalankan perniagaan dengan tujuan untuk mencari keuntungan. Saham syarikat awam berhad ini dipegang secara terbuka dan bagi sesebuah syarikat yang disenaraikan di bursa saham, sahamnya boleh bertukar milik secara bebas. Syarikat tersebut dianggap sebagai sebuah entiti yang sah dan ditubuhkan mengikut Memorandum dan Artikel Persatuan.
- v. **Koperasi** : Ia merujuk kepada sesebuah persatuan sukarela yang bilangan ahlinya tidak terhad dan didaftarkan di bawah Akta Koperasi 1993. Kumpulan wang yang ada adalah milik bersama untuk memenuhi keperluan ahli-ahlinya.

vi. **Perbadanan awam** : Ia merupakan sebuah perbadanan yang ditubuhkan di bawah Akta Khas Parlimen atau Dewan Perundangan Negeri.

vii. **Lain-lain** : Ia merujuk kepada semua pertubuhan lain yang tidak tergolong di bawah mana-mana kategori yang tersebut di atas.

### 10.3 Hak milik

Hak milik sesebuah pertubuhan dikelaskan mengikut taraf pemastautin pemilik/pemilik-pemilik modal berbayar yang terbesar (melebihi 50 peratus) dan bukannya mengikut taraf kerakyatan mereka. Dalam kes di mana setiap pihak (residen Malaysia atau bukan residen Malaysia) memegang jumlah saham yang sama banyak dalam perniagaan berkenaan, pertubuhan itu dikelaskan di bawah 'hak milik bersama'.

Residen Malaysia ialah individu, enterpris atau organisasi lain yang lazimnya terletak di Malaysia untuk jangka masa sekurang-kurangnya satu tahun. Cawangan dan anak syarikat asing yang didaftarkan dan diperbadankan di Malaysia adalah dianggap sebagai residen Malaysia.

Bukan residen Malaysia ialah individu, enterpris atau organisasi lain yang lazimnya terletak di negara lain selain Malaysia. Cawangan dan anak syarikat milik residen Malaysia di luar negara dianggap sebagai bukan residen.

### 10.4 Guna tenaga

Guna tenaga meliputi orang yang diambil bekerja pada bulan Disember atau pada tempoh pembayaran gaji terakhir bagi tahun rujukan. Bilangan orang yang bekerja dikategorikan seperti berikut :

i. **Pemilik yang bekerja dan rakan niaga yang aktif**

Kategori ini merujuk kepada semua pemilik perseorangan dan rakan niaga, sambilan atau sepenuh masa, yang bekerja dengan aktif dalam sesebuah pertubuhan itu. Justeru, ia tidak termasuk rakan niaga yang tidak aktif.



ii. **Pekerja keluarga tidak bergaji**

Ia ditakrifkan sebagai semua ahli isi rumah kepada pemilik pertubuhan yang melaksanakan kerja tertentu (sepenuh masa atau sambilan) dan bekerja sekurang-kurangnya satu pertiga daripada waktu bekerja biasa yang diamalkan oleh pertubuhan berkenaan tanpa mendapat bayaran secara tetap, sama ada dalam bentuk wang tunai atau harta benda bagi kerja yang dilakukan. Biasanya pekerja berkenaan mendapat makanan, tempat tinggal dan bantuan lain sebagai sebahagian daripada ahli isi rumah pemilik tersebut dan terus mendapatnya sama ada ia bekerja atau tidak di dalam pertubuhan itu.

iii. **Pekerja bergaji sepenuh masa**

Ia ditakrifkan sebagai semua pekerja bergaji yang bekerja sekurang-kurangnya 6 jam sehari dan sekurang-kurangnya 20 hari sebulan.

iv. **Pekerja bergaji sambilan**

Ia ditakrifkan sebagai semua pekerja bergaji yang bekerja kurang daripada 6 jam sehari dan / atau kurang daripada 20 hari sebulan.

10.5 **Gaji & upah dibayar**

Ia merujuk kepada pembayaran tunai kepada pekerja sepanjang tahun rujukan termasuk gaji, upah, bonus, komisen, bayaran lebih masa, bayaran pampasan dan elaun-elaun lain sebelum ditolak sumbangan pekerja kepada Kumpulan Wang Simpanan Pekerja (KWSP), Skim Keselamatan Sosial atau lain-lain sumbangan. Tidak termasuk elaun kepada pemilik yang bekerja, rakan niaga yang aktif dan pekerja keluarga tidak bergaji.

10.6 **Nilai harta tetap**

Harta tetap meliputi semua barang, baru atau terpakai, aset ketara dan aset tidak ketara yang mempunyai hayat produktif lebih daripada setahun (seperti tanah, bangunan, jentera dan alat kelengkapan, termasuk kelengkapan pengangkutan). Nilai yang dilaporkan adalah nilai seperti pada penghujung tahun rujukan dan ia mengikut buku akaun unit yang melaporkan. Ia termasuk perolehan baru sepanjang tahun berkenaan tetapi tidak termasuk harta yang dilupuskan pada tahun tersebut. Lanya adalah nilai bersih setelah ditolak susut nilai.



### 10.7 Nilai output kasar

Nilai output kasar dikirakan daripada item-item berikut :

Pendapatan daripada perkhidmatan bekalan elektrik, gas, wap dan pendinginan udara

- + Nilai barangan yang dijual dalam keadaan yang sama semasa dibeli
- Nilai barangan yang dijual dalam keadaan yang sama semasa dibeli
- + Perkhidmatan Pengurusan
- + Penerimaan komisen dan brokeraj
- + Bayaran yuran yang diterima
- + Pendapatan daripada sewaan bangunan yang diterima
- + Pendapatan daripada sewaan alat pengangkutan yang diterima
- + Pendapatan daripada sewaan lain-lain (tidak termasuk sewa tanah)
- + Pendapatan operasi lain
- + Stok akhir (termasuk bahan mentah, pembakar, bekalan, bahan pembungkus dan alat ganti)
- Stok awal (termasuk bahan mentah, pembakar, bekalan, bahan pembungkus dan alat ganti)
- + Stok akhir perdagangan
- Stok awal perdagangan

### 10.8 Nilai pendapatan daripada perkhidmatan / perolehan bekalan elektrik, gas, wap dan pendinginan udara

Nilai pendapatan daripada perkhidmatan / perolehan bekalan elektrik, gas, wap dan pendinginan udara yang dilaporkan dalam penerbitan ini merujuk kepada nilai jualan daripada penjanaan tenaga elektrik, pembuatan gas dan pengagihan gas asli, atau sintetik kepada pengguna melalui saluran utama dan pengeluaran, pengumpulan, dan pengagihan wap, dan air panas untuk pemanasan, tenaga dan tujuan lain pada tahun rujukan, sama ada ia telah dikeluarkan pada tahun tersebut atau sebelumnya.



#### 10.9 Input perantara

Input perantara dikira daripada item-item berikut :

Pembelian barangan, bahan dan perkhidmatan

- + Premium insurans
- + Bayaran royalti dan paten
- + Caj bank
- + Pembelian elektrik dan air
- + Pembelian bahan pembakar, pelincir dan gas
- + Perbelanjaan pematuhan alam sekitar
- + Perbelanjaan kewangan sewa beli
- + Lain-lain perbelanjaan operasi

#### 10.10 Nilai ditambah

Nilai ditambah ialah tambahan kepada nilai komoditi dan perkhidmatan yang disumbangkan oleh sesebuah pertubuhan pembuatan. Nilai ditambah diperoleh daripada perbezaan antara nilai output kasar dengan input perantara.

#### 10.11 Penyelidikan dan pembangunan

Merujuk kepada satu kajian sistematik pada proses, teknik, penggunaan dan produk baru termasuklah penyelidikan penemuan baru secara komersial.

#### 10.12 Perbelanjaan modal

Merujuk kepada nilai belian dan akaun harta tetap bagi pembinaan sendiri sepanjang tahun rujukan. Selain itu, pengubahan dan penambahbaikan ke atas harta sedia ada yang dapat melanjutkan masa sesuatu ekonomi atau meningkatkan sesuatu produktiviti juga termasuk dalam definisi ini.

**11. Pertubuhan** Ia merujuk kepada 51 peratus dan ke atas pemilikan ekuiti dipegang **milikan wanita** oleh wanita ATAU pemegang saham terbesar adalah wanita dan pertubuhan diuruskan oleh wanita ATAU Pengarah Urusan atau Ketua Pengarah Eksekutif adalah wanita yang memiliki sekurang-kurangnya 10 peratus ekuiti.





**12. Pembundaran** Jumlah bagi komponen mungkin berbeza dengan jumlah besar di dalam jadual penerbitan disebabkan oleh pembundaran angka.

**13. Simbol dan huruf ringkas** Simbol dan huruf ringkas berikut telah digunakan di dalam keseluruhan penerbitan :

RM	Ringgit Malaysia
p	sebahagian
-	tidak diperoleh
- <	kurang daripada
}	digabungkan



- 1. Introduction** *This report provides information on Electricity, gas, steam and air conditioning supply sector for reference year 2010. The data were first collected and compiled under the Economic Census conducted in 2011.*
  
- 2. Objective** *The main objective of the census is to collect information pertaining to growth, contribution, composition and distribution of the Electricity, gas, steam and air conditioning supply sector to assist the government in development planning and formulating policies. Data obtained from the census also provides benchmark information and are used for the compilation of national accounts, input-output tables as well as specific studies. The results are also used by private sectors and individuals for economic analysis.*
  
- 3. Legal authority** *The census was conducted under the provisions of the **Statistics Act, 1965 (Revised - 1989)**. Section 5 of this Act requires all establishments operating in Malaysia to provide actual information or best estimates to the Department. The Act stipulates that the contents of the individual returns are **confidential** and only aggregated figures are published.*
  
- 4. Scope and coverage** *The census covered all registered establishments engaged in electricity, gas, steam and air conditioning supply sector as main activities. The main source of information for the frame is the Companies Commission of Malaysia (CCM).*

*Apart from the CCM, information on the electricity, gas, steam and air conditioning supply frame was also gathered from other sources such as the Ministry of Energy, Green Technology and Water, Energy Commission, Tenaga Nasional Berhad, Sabah Electricity Sendirian Berhad and Sarawak Electricity Supply Corporation. The frame is updated to take into account new establishments and to record any changes in the status of the establishments such as closed down, not in operation, change in activities and location or postal addresses.*

*The coverage of the census included 8 industries at 5-digit level corresponding to 3 groups at 3-digit level classified under Section D in the Malaysia Standard Industrial Classification (MSIC), 2008 Ver. 1.0.*



The eight industries are listed below :

- i. Industry 35101 : Operation of generation facilities that produce electric energy
- ii. Industry 35102 : Operation of transmission, distribution and sales of electricity
- iii. Industry 35201 : Manufacture of gaseous fuels with a specified calorific value, by purification, blending and other processes from gases of various types including natural gas
- iv. Industry 35202 : Transportation, distribution and supply of gaseous fuels of all kinds through a system of mains
- v. Industry 35203 : Sale of gas to the user through mains
- vi. Industry 35301 : Production, collection and distribution of steam and hot water for heating, power and other purposes
- vii. Industry 35302 : Production and distribution of cooled air, chilled water for cooling purposes
- viii. Industry 35303 : Production of ice, including ice for food and non-food (e.g. cooling) purposes

However, there were three industries (35201, 35203 and 35301) which could not be classified as principal activities either due to no establishments representing these industries or these activities were reported as secondary activities.

**5. Methodology and response** The census was conducted through mail enquiry. Respondents were given one month to complete and return the questionnaires to the Department. After that period, field enumeration was undertaken to expedite response from the remaining establishments.



**6. Reporting unit** *The reporting unit used in the census was the **establishment**. An establishment is defined as “an economic unit engaged in one activity, under a single legal entity and operating in a single physical location”. Each establishment was assigned an industry classification based on its principal activity. In the case of a multi-activity entity, units engaged in separate activities in the same location constituted distinct establishments. Thus, each branch of a multi-branch organization at a different location was conceptually treated as a different establishment. The establishment was requested to give separate returns for each activity in terms of value. However, if in practice, the accounts were centrally kept such that it was not possible to obtain separate data for each individual unit or branch, the entity or enterprise was treated as a single reporting unit and allowed to submit a consolidated questionnaire covering all the units or branches.*

**7. Census year** *Census year refers to the year in which a census was conducted.*

**8. Reference period** *The reference period of the census was the calendar year 2010. Establishments whose accounting year differed from the calendar year were requested to report according to the accounting or financial year covering the major part of the reference period.*

**9. Type of activity** *The type of business activity refers to both principal and secondary activities. The principal activity refers to the activity to which the establishment devoted most of its resources or to which it derived most of its income. Secondary activities are defined as those incidental or ancillary to the principal activity. The classification of the industry of the establishment is based on its principal activity and is in accordance with the Malaysia Standard Industrial Classification (MSIC), 2008 Ver. 1.0. The MSIC 2008 conforms to the International Standard Industrial Classification of All Economic Activities (ISIC) Rev. 4, United Nations.*

**10. Concepts and definitions** *Concepts and definitions used are based on the recommendations of the United Nations Statistics Division<sup>1</sup>. These concepts adhere to accepted practices, thereby facilitating international comparability of data.*

**10.1 Definition of electricity, gas, steam and air conditioning supply**

*The definition of electricity, gas, steam and air conditioning supply used in this census follows the Malaysia Standard Industrial Classification (MSIC) 2008 Ver. 1.0.*

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<sup>1</sup> *International Recommendations for Industrial Statistics, United Nations Statistics Division, Statistical Papers, Series M No.90, Rev. 3, United Nations, New York, 2009.*



*“Electricity, gas, steam and air conditioning supply is defined as the activity of providing electric power, natural gas, steam, hot water and the like through a permanent infrastructure (network) of lines, mains and pipes. The dimension of the network is not decisive; also included are the distribution of electricity, gas, steam, hot water and the like in industrial parks or residential buildings. This section therefore includes the operation of electric and gas utilities, which generate, control and distribute electric power or gas. Also included is the provision of steam and air-conditioning supply.”*

## 10.2 **Legal organisation**

*For the purpose of this census, the legal status of an establishment has been defined as follows :*

- i. **Individual proprietorship** : This refers to a business, owned and operated by one person for his own profit. The owner has the exclusive right to control the operation of the establishment.*
- ii. **Partnership** : This refers to a group of individuals who agree to contract and to carry on a business with the objective of making profit. All shareholders or any one could manage the business for all parties. A business partnership must comprise at least two members and should not exceed a maximum of twenty members.*
- iii. **Private limited company** : This is a private corporation established to undertake a business with the objective of making profit. The shares are closely held by the shareholders of the corporation who have control over its operation. It is registered with limited liability.*

*A private limited company has its Memorandum and Articles of Association, which among others :*

- (a) restricts the right to transfer its shares;*
- (b) limits the number of its shareholders between two and fifty (not including employees of the company and ex-employees who are currently members);*



- (c) *prohibits any invitation to the public to subscribe for any share or debenture of the company; and*
  - (d) *prohibits any invitation to the public to deposit money with the company for fixed periods or payable at call with or without interest.*
- iv. **Public limited company** : *A public limited company is also a private corporation established, with limited liability, by a minimum of two persons to operate the business with the objective of making profit. The shares in a public limited company are openly held, and in the case of a company listed on the stock exchange, the shares are freely transferable. The company is regarded as a legal entity and is constituted by the Memorandum and Articles of Association.*
- v. **Co-operative** : *This refers to a voluntary association with an unrestricted number of members and registered under the Co-operative Act 1993. Funds are collectively owned to meet the needs of members.*
- vi. **Public corporation** : *This refers to an undertaking set up under the Special Act of Parliament or by the State Legislature.*
- vii. **Others** : *It refers to all other establishments, which do not fall under any of the categories mentioned above.*

### 10.3 **Ownership**

*The ownership of an establishment is classified according to the residential status of the owner (s) of the majority paid-up capital (more than 50 per cent) and not by their citizenship status. In cases where each party (Malaysian residents and non-Malaysian residents) held equal shares in the business, the establishment is classified under 'joint-ownership'.*

*A Malaysian resident is any individual, enterprise or other organisation ordinarily domiciled in Malaysia for a period of at least one year. Malaysian registered branches and incorporated subsidiaries of foreign enterprises are regarded as Malaysian residents.*



*A non-Malaysian resident is any individual, enterprise or other organisation ordinarily domiciled in a country other than Malaysia. Foreign branches and subsidiaries of Malaysian companies are regarded as non-residents.*

#### 10.4 **Employment**

*Employment covers all persons engaged during December or the last pay period of the reference year. The number of persons engaged was classified under the following categories :*

##### **i. Working proprietors and active business partners**

*This category refers to all individual proprietors and partners, part-time or full-time, who work actively in the establishment. It therefore excludes silent and inactive partners.*

##### **ii. Unpaid family workers**

*This is defined as all persons (full-time or part-time) of the household of any of the owners' of the establishment who perform a specified job and work for a minimum of one third of the normal working hours of the establishment, but do not receive regular payment either in cash or in kind for the work done. Such workers generally receive food, shelter and other support as part of the household of the owner but these provisions would continue whether they work or not in the establishment.*

##### **iii. Paid full-time employees**

*This is defined as all paid workers who work for at least 6 hours a day and for at least 20 days a month.*

##### **iv. Paid part-time employees**

*This definition includes all paid workers who work for less than 6 hours a day and/or less than 20 days a month.*

#### 10.5 **Salaries & wages paid**

*This refers to gross emoluments paid to employees during the reference year, inclusive of salaries, wages, bonuses, commission, overtime pay, dismissal pay and allowances before deduction of employees' contribution to Employees' Provident Fund (EPF), Social Security Schemes or any other deductions. Allowances to working proprietors, working partners and unpaid family workers are not included.*



#### 10.6 **Value of fixed assets**

*Fixed assets cover all goods, new or used, tangible or intangible, which have a normal economic life span of more than one year (e.g. land, building, machinery and equipment, including transport equipment). The value reported is as at the end of the reference year and is according to the books of accounts of the reporting unit. It includes additions during the year and excludes assets disposed off during the year. It is net of depreciation.*

#### 10.7 **Value of gross output**

*Value of gross output is calculated from the following items :*

*Income from services rendered / Turnover of electricity, gas, steam and air conditioning supply*

- + Value of goods sold in the same condition as purchased*
- Value of goods sold in the same condition as purchased*
- + Management services*
- + Receipt from commission and brokerage earned*
- + Receipt from membership fees*
- + Income received from rental of building*
- + Income received from rental of transportation equipment*
- + Income received from other rental (exclude rental of land)*
- + Other operating income*
- + Closing stocks (include raw materials, fuels, supplies, packing materials and spare parts)*
- Opening stocks (include raw materials, fuels, supplies, packing materials and spare parts)*
- + Closing stocks of goods purchased for resale (trading stocks)*
- Opening stocks of goods purchased for resale (trading stocks)*

#### 10.8 **Value of Income from services rendered / Turnover of electricity, gas, steam and air conditioning supply**

*Value of income received from services rendered / Turnover of electricity, gas, steam and air conditioning supply reported in this publication refers to the sales value from generating electric power, providing and distributing natural gas, or synthetic, to users through a permanent infrastructure and, collection and distribution of steam and hot water for heating, power and other purposes during the reference year, irrespective of when the products were produced.*





### 10.9 **Intermediate input**

*Intermediate input is calculated to include the following items:*

*Purchase of goods, materials and services*

- + Insurance premiums*
- + Royalty and patent fees*
- + Bank charges*
- + Purchase of electricity and water*
- + Purchase of fuels, lubricants and gas*
- + Environmental compliance expenditure*
- + Financial lease charges*
- + Other operating expenditure*

### 10.10 **Value added**

*Value added is the increment to the value of commodities and services contributed by the electricity, gas, steam and air conditioning supply establishment. Value added is derived as the difference between value of gross output and intermediate input.*

### 10.11 **Research and development**

*Refers to the systematic study of new processes, techniques, applications and products including the investigation of the commercial feasibility of such new discoveries.*

### 10.12 **Capital expenditure**

*Refers to the value of purchases and own-account construction of fixed assets during the reference year. Major additions, alterations and improvements to the existing assets that extend their normal economic life or raise productivity are also included in this definition.*

### **11. Woman-owned establishment**

*Refers to at least 51 per cent and above of the equity held by a woman/ women OR largest shareholders are woman and establishment run by woman OR the Managing Director or Chief Executive Officer is a woman that owns at least 10 per cent of the equity.*

### **12. Rounding**

*The sum of components may not add up to the total in the tables presented in this publication due to rounding.*



**13. Symbols  
and  
notations**

*The following symbols and notations have been used throughout the publication :*

<i>RM</i>	<i>Ringgit Malaysia</i>
<i>p</i>	<i>part</i>
<i>-</i>	<i>not available</i>
<i>- &lt;</i>	<i>below</i>
<i>}</i>	<i>combine</i>



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**Jadual-Jadual**

***Tables***

**BEKALAN ELEKTRIK, GAS, WAP DAN  
PENDINGINAN UDARA**

***ELECTRICITY, GAS, STEAM AND  
AIR CONDITIONING SUPPLY***





**Jadual 1 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut industri, 2010**

*Table 1 - Principal statistics of electricity, gas, steam and air conditioning supply sector by industry, 2010*

<b>Keterangan kumpulan dan industri</b> <i>Group and industry description</i>	<b>Kod kumpulan dan industri</b> <i>Group and industry code</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantara</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
			<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>		<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>
<b>Penjanaan, penghantaran dan pengagihan tenaga elektrik</b> <i>Electric power generation, transmission and distribution</i>	<b>351</b>	<b>40</b>	<b>31,634,627</b>	<b>22,836,289</b>	<b>8,798,337</b>	<b>35,262</b>	<b>2,879,684</b>	<b>75,603,553</b>
<b>Operasi kemudahan penjanaan yang menghasilkan tenaga elektrik; Operasi penghantaran, pengagihan dan penjualan elektrik</b> <i>Operation of generation facilities that produce electric energy; Operation of transmission, distribution and sales of electricity</i>	35101 35102	40	31,634,627	22,836,289	8,798,337	35,262	2,879,684	75,603,553
<b>Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama</b> <i>Manufacture of gas; distribution of gaseous fuels through mains</i>	<b>352</b>	<b>3</b>	<b>2,224,509</b>	<b>1,413,089</b>	<b>811,420</b>	<b>440</b>	<b>30,419</b>	<b>1,063,308</b>
<b>Pengangkutan, pengagihan dan bekalan semua jenis bahan api berunsur gas melalui sistem saluran utama</b> <i>Transportation, distribution and supply of gaseous fuels of all kinds through a system of mains</i>	35202	3	2,224,509	1,413,089	811,420	440	30,419	1,063,308

**Jadual 1 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut industri, 2010 (samb.)**

*Table 1 - Principal statistics of electricity, gas, steam and air conditioning supply sector by industry, 2010 (cont'd)*

<b>Keterangan kumpulan dan industri</b> <i>Group and industry description</i>	<b>Kod kumpulan dan industri</b> <i>Group and industry code</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
			<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Bekalan wap dan pendinginan udara</b> <i>Steam and air conditioning supply</i>	<b>353</b>	<b>102</b>	<b>757,362</b>	<b>375,769</b>	<b>381,593</b>	<b>5,399</b>	<b>107,870</b>	<b>1,313,132</b>
<b>Pengeluaran dan pengagih udara dingin, air yang disejukkan bagi tujuan pendinginan</b> <i>Production and distribution of cooled air, chilled water for cooling purposes</i>	35302	3	387,413	188,690	198,723	314	20,711	1,082,047
<b>Pengeluaran ais, termasuk ais untuk tujuan makanan dan bukan makanan (cth. pendinginan)</b> <i>Production of ice, including ice for food and nonfood (e.g. cooling) purposes</i>	35303	99	369,949	187,080	182,869	5,085	87,159	231,085

**Jadual 2 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut negeri, 2010**

*Table 2 - Principal statistics of electricity, gas, steam and air conditioning supply sector by state, 2010*

<b>Negeri</b> <i>State</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah Total</b>	<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>
<b>Johor</b>	9	3,359,558	2,222,656	1,136,902	437	6,910	5,941,454
<b>Kedah</b>	8	12,589	7,153	5,436	171	2,964	9,408
<b>Kelantan</b>	10	33,138	14,943	18,195	341	4,364	1,767
<b>Melaka</b>	4	500,400	282,002	218,399	802	26,431	586,959
<b>Negeri Sembilan</b>	3	193,986	82,639	111,347	170	6,303	150,654
<b>Pahang</b>	5	10,948	5,795	5,154	145	3,191	3,264
<b>Perak</b>	11	1,592,853	890,616	702,237	406	15,321	3,080,599
<b>Perlis</b>	4	8,923	4,245	4,679	126	1,446	7,027
<b>Pulau Pinang</b>	5	387,779	267,856	119,923	554	15,986	652,730
<b>Sabah</b>	32	1,041,802	673,517	368,285	3,018	142,440	3,053,838
<b>Sarawak</b>	16	1,661,254	1,028,587	632,667	4,199	168,668	6,323,577
<b>Selangor</b>	13	5,848,001	3,704,377	2,143,623	2,146	88,869	6,181,021
<b>Terengganu</b>	11	30,887	15,101	15,786	502	7,215	10,197
<b>W. P. Kuala Lumpur *</b>	14	19,934,379	15,425,662	4,508,718	28,084	2,527,862	51,977,498

\* Nota : Termasuk W.P. Putrajaya dan W.P. Labuan

Note : Included W.P. Putrajaya and W.P. Labuan



**Jadual 3 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut taraf sah, 2010**

*Table 3 - Principal statistics of electricity, gas, steam and air conditioning supply sector by legal organisation, 2010*

<b>Taraf sah</b> <i>Legal organisation</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>
<b>Hak milik perseorangan</b> <i>Individual proprietorship</i>	19	13,335	6,611	6,724	189	3,029	5,613
<b>Perkongsian</b> <i>Partnership</i>	12	8,756	4,977	3,779	135	1,855	4,821
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	104	13,217,833	7,906,035	5,311,797	10,325	397,936	22,708,867
<b>Syarikat awam berhad</b> <i>Public limited company</i>	7	21,373,785	16,706,222	4,667,563	30,418	2,614,665	55,260,349
<b>Koperasi</b> <i>Co-operative</i>	3	2,789	1,302	1,487	34	488	342

**Jadual 4 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut saiz pekerja, 2010**  
*Table 4 - Principal statistics of electricity, gas, steam and air conditioning supply sector by employment size, 2010*

<b>Saiz pekerja</b> <i>Employment size</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah Total</b>	<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>
<b>Kurang daripada</b> <i>Below</i>	<b>5</b>	1,287	642	645	32	296	470
<b>5</b>	<b>19</b>	733,425	472,781	260,644	511	11,117	1,072,571
<b>20</b>	<b>49</b>	754,874	420,301	334,572	1,149	21,733	1,186,237
<b>50</b>	<b>199</b>	8,306,681	4,787,048	3,519,633	3,306	108,522	13,637,440
<b>200</b>	<b>499</b>	4,040,186	2,347,051	1,693,135	2,541	141,917	2,010,083
<b>500</b>	<b>1,999</b>	1,817,379	1,307,562	509,817	2,472	61,142	3,568,316
<b>2,000</b>	<b>dan lebih and above</b>	18,962,665	15,289,762	3,672,903	31,090	2,673,245	56,504,875

**Jadual 5 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut saiz output kasar, 2010**  
*Table 5 - Principal statistics of electricity, gas, steam and air conditioning supply sector by gross output size, 2010*

<b>Saiz output kasar</b> <i>Gross output size</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah Total</b>	<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>
<b>Kurang daripada</b> <i>Below</i>							
<b>1,000</b> - < <b>10,000</b>	38	16,882	9,162	7,720	293	3,928	8,737
<b>10,000</b> - < <b>100,000</b>	67	189,465	99,204	90,261	2,675	45,237	259,759
<b>100,000</b> - < <b>500,000</b>	12	530,732	291,416	239,316	2,819	53,166	350,321
<b>500,000</b> - < <b>1,000,000</b>	18	3,646,340	2,008,863	1,637,477	4,740	278,463	7,174,463
<b>1,000,000</b> dan lebih <i>and above</i>	5	4,391,102	2,561,353	1,829,749	3,912	180,687	8,917,725
<b>1,000,000</b> dan lebih <i>and above</i>	5	25,841,977	19,655,149	6,186,828	26,662	2,456,491	61,268,988

**Jadual 6 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kumpulan dan saiz output kasar, 2010**  
*Table 6 - Principal statistics of electricity, gas, steam and air conditioning supply sector by group and gross output size, 2010*

Kumpulan dan saiz output kasar <i>Group and gross output size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries &amp; wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
<b>Jumlah</b> <i>Total</i>	<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>
<b>Penjanaan, penghantaran dan pengagihan tenaga elektrik</b> <i>Electric power generation, transmission and distribution</i>	<b>40</b>	<b>31,634,627</b>	<b>22,836,289</b>	<b>8,798,337</b>	<b>35,262</b>	<b>2,879,684</b>	<b>75,603,553</b>
<b>Kurang daripada</b> <i>Below</i>	10	25,120	12,887	12,233	306	6,963	57,969
<b>1,000 - &lt; 10,000</b>							
<b>10,000 - &lt; 100,000</b>	6	336,975	198,027	138,947	315	6,692	205,114
<b>100,000 - &lt; 500,000</b>	15	3,258,927	1,820,174	1,438,754	4,426	257,752	6,092,416
<b>500,000 - &lt; 1,000,000</b>	5	4,391,102	2,561,353	1,829,749	3,912	180,687	8,917,725
<b>1,000,000 dan lebih</b> <i>and above</i>	4	23,622,503	18,243,848	5,378,655	26,303	2,427,590	60,330,329

**Jadual 6 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kumpulan dan saiz output kasar, 2010 (samb.)**

*Table 6 - Principal statistics of electricity, gas, steam and air conditioning supply sector by group and gross output size, 2010 (cont'd)*

<b>Kumpulan dan saiz output kasar</b> <i>Group and gross output size</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama</b> <i>Manufacture of gas; distribution of gaseous fuels through mains</i>	<b>3</b>	<b>2,224,509</b>	<b>1,413,089</b>	<b>811,420</b>	<b>440</b>	<b>30,419</b>	<b>1,063,308</b>
<b>1,000 dan lebih and above</b>	<b>3</b>	<b>2,224,509</b>	<b>1,413,089</b>	<b>811,420</b>	<b>440</b>	<b>30,419</b>	<b>1,063,308</b>

**Jadual 6 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kumpulan dan saiz output kasar, 2010 (samb.)**  
*Table 6 - Principal statistics of electricity, gas, steam and air conditioning supply sector by group and gross output size, 2010 (cont'd)*

Kumpulan dan saiz output kasar <i>Group and gross output size</i>		Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries &amp; wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>	
(RM '000)			(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)	
<b>Bekalan wap dan pendinginan udara</b> <i>Steam and air conditioning supply</i>		<b>102</b>	<b>757,362</b>	<b>375,769</b>	<b>381,593</b>	<b>5,399</b>	<b>107,870</b>	<b>1,313,132</b>	
47	<b>Kurang daripada</b> <i>Below</i>								
	<b>1,000</b> - < <b>10,000</b>	36	16,009	8,737	7,272	275	3,645	7,430	
	<b>10,000</b> - < <b>100,000</b>	}	57	160,182	84,953	75,229	2,306	37,039	78,448
	<b>100,000</b> - < <b>500,000</b>								
	<b>500,000</b> - < <b>1,000,000</b>								
<b>1,000,000</b> dan lebih <i>and above</i>									
	9	581,170	282,079	299,092	2,818	67,186	1,227,254		

**Jadual 7 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut saiz harta tetap, 2010**  
*Table 7 - Principal statistics of electricity, gas, steam and air conditioning supply sector by fixed assets size, 2010*

Saiz harta tetap <i>Fixed assets size</i>		Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries &amp; wages paid</i>	Nilai harta tetap yang dimiliki akhir tahun <i>Value of fixed assets owned as the end of the</i>
(RM '000)			(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>		<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>
<b>Kurang daripada</b> <i>Below</i>								
	<b>1,000</b> - < <b>10,000</b>	70	299,809	169,460	130,349	1,561	24,492	17,260
48	<b>1,000</b> - < <b>10,000</b>	42	1,136,988	556,016	580,972	2,950	108,927	114,669
	<b>10,000</b> - < <b>100,000</b>	9	455,641	251,418	204,224	2,114	44,057	441,765
	<b>100,000</b> dan lebih <i>and above</i>	24	32,724,059	23,648,253	9,075,806	34,476	2,840,496	77,406,298

**Jadual 8 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kumpulan dan saiz harta tetap, 2010**

*Table 8 - Principal statistics of electricity, gas, steam and air conditioning supply sector by group and fixed assets size, 2010*

<b>Kumpulan dan saiz harta tetap</b> <i>Group and fixed assets size</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>	
<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>	
<b>Jumlah</b> <i>Total</i>	<b>145</b>	<b>34,616,498</b>	<b>24,625,148</b>	<b>9,991,350</b>	<b>41,101</b>	<b>3,017,973</b>	<b>77,979,992</b>	
<b>Penjanaan, penghantaran dan pengagihan tenaga elektrik</b> <i>Electric power generation, transmission and distribution</i>	<b>40</b>	<b>31,634,627</b>	<b>22,836,289</b>	<b>8,798,337</b>	<b>35,262</b>	<b>2,879,684</b>	<b>75,603,553</b>	
<b>Kurang daripada</b> <i>Below</i>	<b>1,000</b>	7	221,184	129,031	92,153	339	6,708	773
<b>1,000 - &lt; 10,000</b>		9	996,035	476,142	519,893	937	78,017	40,532
<b>10,000 - &lt; 100,000</b>		5	302,807	183,624	119,184	228	4,941	288,064
<b>100,000 dan lebih</b> <i>and above</i>		19	30,114,600	22,047,492	8,067,108	33,758	2,790,018	75,274,184



**Jadual 8 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kumpulan dan saiz harta tetap, 2010 (samb.)**

*Table 8 - Principal statistics of electricity, gas, steam and air conditioning supply sector by group and fixed assets size, 2010 (cont'd)*

Kumpulan dan saiz harta tetap <i>Group and fixed assets size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries &amp; wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>									
(RM '000)		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)									
<b>Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama</b> <i>Manufacture of gas; distribution of gaseous fuels through mains</i>	<b>3</b>	<b>2,224,509</b>	<b>1,413,089</b>	<b>811,420</b>	<b>440</b>	<b>30,419</b>	<b>1,063,308</b>									
50 <table style="display: inline-table; vertical-align: middle; margin-left: 10px;"> <tr> <td style="text-align: center;">10,000</td> <td style="text-align: center;">-</td> <td style="text-align: center;">&lt;</td> <td style="text-align: center;">100,000</td> <td rowspan="2" style="font-size: 3em; vertical-align: middle;">}</td> </tr> <tr> <td style="text-align: center;">100,000</td> <td colspan="2"></td> <td style="text-align: center;"><b>dan lebih</b> <i>and above</i></td> </tr> </table>	10,000	-	<	100,000	}	100,000			<b>dan lebih</b> <i>and above</i>	3	2,224,509	1,413,089	811,420	440	30,419	1,063,308
10,000	-	<	100,000	}												
100,000			<b>dan lebih</b> <i>and above</i>													

Jadual 8 - Perangkaan utama sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kumpulan dan saiz harta tetap, 2010 (samb.)

Table 8 - Principal statistics of electricity, gas, steam and air conditioning supply sector by group and fixed assets size, 2010 (cont'd)

Kumpulan dan saiz harta tetap <i>Group and fixed assets size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries &amp; wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
(RM '000)		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Bekalan wap dan pendinginan udara</b> <i>Steam and air conditioning supply</i>	<b>102</b>	<b>757,362</b>	<b>375,769</b>	<b>381,593</b>	<b>5,399</b>	<b>107,870</b>	<b>1,313,132</b>
<b>Kurang daripada</b> <i>Below</i>							
<b>1,000</b> - < <b>10,000</b>	63	78,625	40,429	38,196	1,222	17,785	16,487
<b>10,000</b> - < <b>100,000</b>	33	140,953	79,874	61,079	2,013	30,911	74,137
<b>100,000</b> dan lebih <i>and above</i>	3	150,371	66,776	83,595	1,850	38,464	140,461
	3	387,413	188,690	198,723	314	20,711	1,082,047

**Jadual 9 - Pekerja, gaji & upah dalam sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kategori pekerja, 2010**  
*Table 9 - Employment, salaries & wages in the electricity, gas, steam and air conditioning supply sector by category of workers, 2010*

Kategori pekerja <i>Category of workers</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>			Gaji & upah dibayar <i>Salaries &amp; wages paid</i>		
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	Jumlah <i>Total</i>	Lelaki <i>Male</i> (RM '000)	Perempuan <i>Female</i>
<b>Jumlah (A+B+C) / Total (A+B+C)</b>	<b>41,101</b>	<b>34,040</b>	<b>7,061</b>	<b>3,017,973</b>	<b>2,543,916</b>	<b>474,056</b>
<b>A. Jumlah pemilik yang bekerja dan pekerja keluarga tidak bergaji</b> <i>Total working proprietors and unpaid family workers</i>	<b>44</b>	<b>36</b>	<b>8</b>	-	-	-
Pemilik yang bekerja dan rakan niaga yang aktif <i>Working proprietors and active business partners</i>	39	33	6	-	-	-
Pekerja keluarga tidak bergaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap) <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	5	3	2	-	-	-
<b>B. Jumlah pekerja (sepenuh masa) / Total employees (full-time)</b>	<b>40,533</b>	<b>33,537</b>	<b>6,996</b>	<b>3,011,026</b>	<b>2,537,733</b>	<b>473,293</b>
Pengurusan, profesional dan eksekutif <i>Managerial, professional and executive</i>	6,466	4,672	1,794	921,505	718,727	202,778
Teknik dan penyeliaan <i>Technical and supervisory</i>	18,943	18,309	634	1,416,937	1,382,871	34,066
Perkeranian dan pekerjaan yang berkaitan <i>Clerical and related occupation</i>	6,883	2,968	3,915	377,655	161,780	215,875
Pekerja am <i>General workers</i>	8,241	7,588	653	294,930	274,355	20,575
<b>C. Jumlah pekerja (sambilan) / Total employees (part-time)</b>	<b>524</b>	<b>467</b>	<b>57</b>	<b>6,946</b>	<b>6,183</b>	<b>764</b>

**Jadual 10 - Guna tenaga dalam sektor bekalan elektrik, gas, wap dan pendinginan udara mengikut kumpulan dan jantina, 2010**

*Table 10 - Employment in the electricity, gas, steam and air conditioning supply sector by group and gender, 2010*

Keterangan kumpulan <i>Group description</i>	Kod kumpulan <i>Group code</i>	Jumlah <i>Total</i>	Jumlah pekerja <i>Total number of persons engaged</i>		Pemilik yang bekerja, rakan niaga yang aktif dan pekerja keluarga tidak bergaji <i>Working proprietors, active business partners and unpaid family workers</i>		Pekerja bergaji <i>Paid employees</i>		Gaji & upah yang dibayar <i>Salaries &amp; wages paid</i>	
			Lelaki <i>Male</i>	Perempuan <i>Female</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>
<b>Jumlah</b> <i>Total</i>		<b>41,101</b>	<b>34,040</b>	<b>7,061</b>	<b>36</b>	<b>8</b>	<b>34,004</b>	<b>7,053</b>	<b>2,543,916</b>	<b>474,056</b>
<b>Penjanaan, penghantaran dan pengagihan tenaga elektrik</b> <i>Electric power generation, transmission and distribution</i>	351	35,262	28,877	6,385	-	-	28,877	6,385	2,431,405	448,279
<b>Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama</b> <i>Manufacture of gas; distribution of gaseous</i>	352	440	361	79	-	-	361	79	22,811	7,608
<b>Bekalan wap dan pendinginan udara</b> <i>Steam and air conditioning supply</i>	353	5,399	4,802	597	36	8	4,766	589	89,700	18,170

**Jadual 11 - Perangkaan utama pertubuhan milikan wanita dalam sektor bekalan elektrik, gas, wap dan pendinginan udara, 2010**

*Table 11 - Principal statistics of women-owned establishments in electricity, gas, steam and air conditioning supply sector, 2010*

<b>Pertubuhan milikan wanita</b> <i>Women-owned establishments</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir</b> <i>Total number of persons engaged during December or the last pay period</i>	<b>Gaji &amp; upah yang dibayar</b> <i>Salaries &amp; wages paid</i>	<b>Nilai harta tetap yang dimiliki pada akhir tahun</b> <i>Value of fixed assets owned as at the end of the year</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>7</b>	<b>8,621</b>	<b>4,919</b>	<b>3,703</b>	<b>110</b>	<b>1,812</b>	<b>1,431</b>
<b>Bekalan wap dan pendinginan udara</b> <i>Steam and air conditioning supply</i>	<b>7</b>	<b>8,621</b>	<b>4,919</b>	<b>3,703</b>	<b>110</b>	<b>1,812</b>	<b>1,431</b>

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**LAMPIRAN  
PIAWAIAN KLASIFIKASI INDUSTRI  
MALAYSIA 2008 VER. 1.0  
SEKTOR BEKALAN ELEKTRIK, GAS,  
WAP DAN PENDINGINAN UDARA  
(SEKSYEN D)**

**APPENDIX  
MALAYSIA STANDARD INDUSTRIAL  
CLASSIFICATION 2008 VER. 1.0  
ELECTRICITY, GAS, STEAM AND AIR  
CONDITIONING SUPPLY SECTOR  
(SECTION D)**

**BEKALAN ELEKTRIK, GAS, WAP DAN  
PENDINGINAN UDARA**

**ELECTRICITY, GAS, STEAM AND  
AIR CONDITIONING SUPPLY**



**Klasifikasi Standard Perindustrian Malaysia 2008 Ver. 1.0**  
*Malaysian Standard Industrial Classification 2008 Ver. 1.0*

**Seksyen D : Bekalan Elektrik, Gas, Wap dan Pendinginan Udara**  
*Section D : Electricity, Gas, Steam and Air Conditioning Supply*

<b>Kumpulan</b> <i>Group</i>	<b>Perkara</b> <i>Item</i>	<b>Keterangan</b> <i>Description</i>	<b>MSIC 2000</b> <i>MSIC 2000</i>
<b>351</b>		<b>Penjanaan, penghantaran dan pengagihan tenaga elektrik</b> <i>Electric power generation, transmission and distribution</i>	
	35101	<b>Operasi kemudahan penjanaan yang menghasilkan tenaga elektrik</b> <i>Operation of generation facilities that produce electric energy</i>	40100p
	35102	<b>Operasi penghantaran, pengagihan dan penjualan elektrik</b> <i>Operation of transmission, distribution and sales of electricity</i>	40100p
<b>352</b>		<b>Pembuatan gas; pengagihan bahan api berunsur gas melalui saluran utama</b> <i>Manufacture of gas; distribution of gaseous fuels through mains</i>	
	35201	<b>Pembuatan bahan api berunsur gas yang mempunyai spesifikasi nilai calorific, mengikut penulenan, pencampuran dan proses lain dari jenis gas yang lain termasuk gas asli</b> <i>Manufacture of gaseous fuels with a specified calorific value, by purification, blending and other processes from gases of various types including natural gas</i>	40200p
	35202	<b>Pengangkutan, pengagihan dan bekalan semua jenis bahan api berunsur gas melalui sistem saluran utama</b> <i>Transportation, distribution and supply of gaseous fuels of all kinds through a system of mains</i>	40200p
	35203	<b>Penjualan gas kepada pengguna melalui saluran utama</b> <i>Sale of gas to the user through mains</i>	40200p
<b>353</b>		<b>Bekalan wap dan pendinginan udara</b> <i>Steam and air conditioning supply</i>	
	35301	<b>Pengeluaran, pengumpulan dan pengagihan wap dan air panas untuk pemanasan, tenaga dan tujuan lain</b> <i>Production, collection and distribution of steam and hot water for heating, power and other purposes</i>	40300p
	35302	<b>Pengeluaran dan pengagih udara dingin, air yang disejukkan bagi tujuan pendinginan</b> <i>Production and distribution of cooled air, chilled water for cooling purposes</i>	40300p
	35303	<b>Pengeluaran ais, termasuk ais untuk tujuan makanan dan bukan makanan (cth. pendinginan)</b> <i>Production of ice, including ice for food and non-food (e.g. cooling) purposes</i>	15491