



CEM Quarterly Report

(Jan - Sep 2005)

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1. Corporate Highlights

Medical Assistance Protocol between the Health Bureau and CEM

On 3 August 2005, the Health Bureau of the MSAR Government and CEM signed a collaboration protocol on medical assistance. Collaboration between the two entities has been established for nearly two decades. The first two protocols were signed in 1986 and 1995 respectively. Within this new protocol, the two parties have simplified the relevant procedures, extended the service scope as well as better defined the right and duties of each other, aiming to ensure a good health care service to CEM employees and to support the implementation of the MSAR Medical Policy, especially on the preventive discipline.

CEM celebrates Mid-Autumn Festival with senior citizens

To further consolidate the relationship between CEM and Caritas Macau, the two entities signed an agreement of cooperation in April 2005. Under this protocol, CEM and Caritas Macau will move together in a closer cooperation, with the participation of CEM Ambassador Team, to organize a series of different types of activities to support the community, in particular for citizens with special needs.

In September, before the Mid-Autumn Festival, CEM organized a group of CEM representatives to visit the Caritas Macau Senior Citizens Center. Gifts and souvenirs were offered to all the senior citizens together with plenty of useful techniques on the appropriate way to handle electrical appliances and how to save electricity.

Students completed their summer training in CEM

An important element for the education of every student is the experience gained during professional training.

Every year in July and August, CEM collaborates with both the University of Macau (UM) and the Education & Youth Affairs Bureau (DSEJ) by providing Macau students with on-the-job training at its various departments. This year the programme involved 14 university students from UM and 24 school students appointed by DSEJ, in total 38 students.

A strong foundation has been formed between CEM and the two institutions in the training programmes, with UM since 1991 and DSEJ since 1999, where 371 students have been trained at CEM workplaces. This close collaboration has resulted in the recruitment of 32 university graduates that are now an important part of CEM engineering and administration staff.



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2. Electricity Sales by Classification

	YTD2004			YTD2005			Change 2005/2004	
	Number of Contracts (0s)	Sales (MWh)	Market Share (%)	Number of Contracts (0s)	Sales (MWh)	Market Share (%)	Number (%)	Sales (%)
INDUSTRIAL	2,433	106,634	7.4	2,397	113,619	7.0	-1.5%	6.6
COMMERCIAL	19,197	571,526	39.6	20,070	665,399	41.0	+4.5%	16.4
RESIDENTIAL	173,286	474,127	32.8	176,000	522,468	32.2	+1.6%	10.2
PUBLIC ADMINISTRATION	3,591	291,210	20.2	3,709	320,030	19.7	+3.3%	9.9
TOTAL	198,509	1,443,497	100.0	202,178	1,621,516	100.0	+1.8%	12.3

3. Monthly Peak Load

MVA	2004	2005	Variance (%)
Jan	252.7	270.1	7
Feb	250.6	281.7	12
Mar	265.6	295.1	11
Apr	324.0	330.7	2
May	354.0	395.0	12
Jun	420.2	402.0	-4
Jul	422.1	466.6	11
Aug	403.9	416.3	3
Sep	387.1	414.1	7

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4. M - Index

mm:ss	2004	2005	Variance (%)
Jan	00:06	00:23	283
Feb	00:06	00:13	132
Mar	00:15	00:11	-27
Apr	01:07	00:09	-87
May	00:18	00:20	14
Jun	00:11	00:04	-65
Jul	00:03	01:09	2200
Aug	00:45	00:06	-86
Sep	00:11	02:16	1136
YTD	03:02	04:51	60

M-index = $\Sigma i / \Sigma P_i$

Σi = Total interruption power x interruption time

ΣP_i = Sum of installed power (kVA) for all the 11/0.4kV customer substations

M-index represents the equivalent time of energy not supplied to the network. The figures indicated include planned interruption.

YTD ASAI is 99.9993% and moving-12-month also 99.9993%.

5. SAIDI - System Average Interruption Duration Index

	2004	2005	Variance (%)
Jan	0.14	0.13	-9
Feb	0.39	0.29	-26
Mar	0.16	0.04	-77
Apr	0.05	0.13	170
May	0.14	0.08	-44
Jun	0.31	0.04	-86
Jul	0.13	1.14	802
Aug	0.53	0.05	-91
Sep	0.21	0.94	354
YTD	2.05	2.84	38

SAIDI = Σ (Affected Customers x Affected Hours) / Total Customers Served

SAIDI represents the equivalent interruption time per customer.

SAIDI increased over last year by 38%.

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6. SAIFI - System Average

	2004	2005	Variance (%)
Jan	0.01	0.02	368
Feb	0.02	0.01	-46
Mar	0.02	0.01	-60
Apr	0.00	0.03	779
May	0.01	0.01	5
Jun	0.04	0.01	-66
Jul	0.02	0.03	46
Aug	0.04	0.01	-79
Sep	0.02	0.04	80
YTD	0.19	0.18	-3

SAIFI = Σ (Affected Customers) / Total Customers Served
 SAIFI represents the percentage of customers affected by an outage.

SAIFI slightly improved over last year.

7. Number of Work Accidents:

Month/Year	2004	2005
Jan	0	0
Feb	1	0
Mar	3	0
Apr	0	0
May	3	0
Jun	0	0
Jul	1	3
Aug	0	1
Sep	2	1
Total	10	5

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8. WAFI - Work Accident Frequency Index

	2004	2005	Variance %
Jan	0.00	0.00	0.00
Feb	8.34	0.00	-100.00
Mar	21.38	0.00	-100.00
Apr	0.00	0.00	0.00
May	23.64	0.00	-100.00
Jun	0.00	0.00	0.00
Jul	7.20	22.32	209.82
Aug	0.00	7.49	0.00
Sep	15.78	8.26	-47.64

9. WAGI - Work Accident Gravity Index

	2004	2005	Variance %
Jan	0.28	0.00	-100.00
Feb	0.32	0.00	-100.00
Mar	0.11	0.00	-100.00
Apr	0.22	0.00	-100.00
May	0.32	0.00	-100.00
Jun	0.41	0.00	-100.00
Jul	0.04	0.10	168.92
Aug	0.02	0.01	-51.75
Sep	0.02	0.00	-100.00