

# CABINET MINUTE

DECISION NO.

BRISBANE, 6 / 10 / 1986

49922

SUBJECT: Solar Electricity Supply for Coconut Island.

(Submission No. 45036)

Copies Received at 11.30 a.m. 5 / 10 / 1986 Mr. Katter

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## CIRCULATION DETAILS

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C O N F I D E N T I A L  
C A B I N E T                      M I N U T E

Brisbane, 6th October, 1986

Decision No. 49922

Submission No. 45036

TITLE: Solar Electricity Supply for  
Coconut Island.

CABINET decided:-

1. That the tender review period for solar electricity supply be extended until 31st October, 1986.
2. That the Inter-Departmental Committee's report on the evaluation of tenders be referred to Cabinet for consideration as well as examination of appropriate funding arrangements based on the provision of no additional State funding.

CIRCULATION: Department of Community Services and copy to Minister.  
Premier's Department and copy to Premier and Treasurer.  
Treasury Department and copy to Minister.  
Queensland Electricity Commission and copy to Minister.  
Department of Industry Development and copy to Minister.  
All other Ministers for perusal and return.

Certified True Copy

*MB*

*[Signature]*  
Secretary to Cabinet.



Submission No. \_\_\_\_\_

Copy No. \_\_\_\_\_

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F O R C A B I N E TSOLAR ELECTRICITY SUPPLY FOR COCONUT ISLAND

1. Cabinet by Decision No. 49335 dated 15th July decided as follows:

"That, in relation to a solar power supply for Coconut Island -

- (a) If necessary, the Inter-Departmental Committee meet urgently to consider an amended specification in terms of paragraph 12(b) of the Submission, and tenders be called immediately on the basis of the amended specification;
  - (b) A review of all tenders received be undertaken by the Inter-Departmental Committee within two weeks of the closing date to enable further consideration of the project by Cabinet; and
  - (c) Cabinet note the special funding arrangements which will be required by the Department of Community Services to provide the system."
2. In accordance with paragraph (a) above, the technical specification was suitably amended, and tenders for the project were publicly advertised on 2nd August, 1986. Tenders were due to close on 9th September, 1986. However, following representations to me by several major tenderers the closing date for receipt of tenders was extended to 23rd September, 1986.
3. Following public opening of tenders, a total of 15 tender responses were received ranging in price from \$522,800 to \$2,300,000. Prices submitted by tenderers were not revealed at the tender opening. The tenders are listed on Attachment 1 and their features are shown on Attachment 2. Three of the tenders were received late and one of these from Transtel (Qld) Pty. Ltd. has been accepted as it was delayed by the courier. The joint tender of Solar Tracking Systems Aust./University of Queensland was received only five minutes late and would not normally be considered a valid tender because no firm price was quoted as required by the specification. However, this joint venture involves one of the few local manufacturers in this area of technology together with the State Government sponsored Queensland University Solar Research Centre. In view of this I have asked that this tender be included in any shortlist of tenderers for further evaluation.

The tender of Solar Systems Ltd. was invalidly lodged by telex.

...2.

4. The Inter-Departmental Committee has accepted the Consultant's preliminary review of the tenders and his recommended shortlist of six prospective tenderers comprising both Queensland/Australian based as well as International firms. These are:

- . Energy Systems
- . Transtel
- . McConnell Dowell
- . Solarex
- . IPG/Westinghouse
- . BP Solar

As previously mentioned it is proposed to add the joint tender of Solar Tracking Systems Australia/University of Queensland to the shortlist of six tenderers. Detailed evaluation of these seven tenders is proceeding.

5. Due to the complexity of the tender analysis process and the need to obtain the most economical system, the consultant considers it necessary to extend the tender review period from two weeks to six weeks (i.e. until 31st October) and thereafter refer the Inter-Departmental Committee's recommendations to Cabinet for its consideration as well as examination of appropriate funding arrangements. However in view of the importance of this proposal, I suggest the tender review period be extended by two weeks only i.e. 17th October, 1986.

6. Accordingly, I recommend that:

- (a) the tender review period be extended until 17th October 1986.
- (b) the Inter-Departmental Committee's report on the evaluation of tenders be referred to Cabinet for consideration as well as examination of appropriate funding arrangements.

R.C. KATTER

Minister for Northern Development  
and Community Services.

BRISBANE

3rd October, 1986



TENDERS FOR THE SUPPLY, INSTALLATION AND COMMISSIONING  
OF A SOLAR PHOTOVOLTAIC GENERATOR - COCONUT ISLAND -  
TORRES STRAIT - CLOSED 3.00 P.M. TUESDAY  
23RD SEPTEMBER, 1986

TENDERS RECEIVED (IN ORDER OF OPENING)

- |     |  |                |
|-----|--|----------------|
| 1.  | T.A. Mellen Pty. Ltd.,<br>Electrical, Mechanical Engineers,<br>Villawood, N.S.W.               | \$1,084,798.00 |
| 2.  | McConnell Dowell-Nichols Pty. Ltd.,<br>Underwood, Qld.   | \$ 688,605.00  |
| 3.  | B.P. Solar Australia,<br>Brookvale, N.S.W.   | \$1,179,068.00 |
| 4.  | G.F. Trading (G.F. Solar),<br>Rocklea, Brisbane.   | \$1,254,081.00 |
| 5.  | C. Itoh & Co. Ltd.,<br>Japan   | \$2,300,000.00 |
| 6.  | Integrated Power Corporation ) Joint<br>Westinghouse Industry Services,) Tender<br>Wacol, Qld. | \$ 929,000.00  |
| 7.  | Energy Systems International Pty. Ltd.<br>Canberra.  | \$ 522,800.00  |
| 8.  | Solarex Pty. Ltd.,<br>Sydney.  | \$ 694,905.00  |
| 9.  | Industrial & Marine Electrics Pty. Ltd.,<br>Cairns.  | \$ 866,953.00  |
| 10. | Mitsui & Co. (Aust.) Ltd. ) Joint<br>Toshiba Corporation, ) Tender<br>Brisbane.                | \$1,696,790.00 |
| 11. | Energy Resource Managers,<br>(Associates: Kyocera Corporation),<br>Brisbane.                   | \$1,748,421.00 |

LATE TENDERS.

- |     |   |                 |
|-----|---|-----------------|
| 12. | Solar Tracking Systems Australia ) Joint<br>University of Queensland, ) Tender<br>Brendale, Brisbane. | \$ 842,453.00 * |
| 13. | Transtel (Qld.) Pty. Ltd.,<br>Dandenong, Vic.   | \$ 653,710.00   |
| 14. | Total Solar Energy Systems,<br>Caloundra, Qld.  | \$ 672,000.00   |

INCORRECT LODGEMENT OF TENDER BY TELEX.

- |     |                                     |               |
|-----|-------------------------------------|---------------|
| 15. | Solar Systems Ltd.<br>Manly, N.S.W. | \$ 955,470.00 |
|-----|-------------------------------------|---------------|

\* The tender states "quoted price does not include any holding charges, interest or profit. It is recommended that a conservative percentage is negotiated and added to the actual cost from time to time." The price also includes a 15% contingency item.

## MAIN FEATURES OF TENDERS

CONTRACTOR	1	2	3	4	5	6	7	8	9	10	11	12	13
PV Array Manufac- ture	Solarex	Solarex	BP Solar	ARCO	Hovan	West/ ARCO	Solarex	Solarex	Solarex	BP Solar	Japan Solar	Philips	Solarex
Voltage - V (DC)	110	110	110	110	110	110	240	110	110	110	110	120	110
Power-kW	20.5	20.5	24.2	24.8	54.8	26.0	20.7	20.5	20.5	31.0	31.2	16.1 <sup>2</sup>	20.5
Battery Manu- facturer Capacity - Ah	Dunlop 6300	Dunlop 6300	Lucas 3036	Absolyte 2232	Furukawa 8000	Exide 3380	Century 450 <sup>1</sup>	Dunlop 6300	Dunlop 6300	Lucas 4048	Chloride 5466	Dunlop 4000	Dunlop 1150
Inverter Manu- facturer Capacity - No x kW	Geebung 1 x 15	Geebung 1 x 15	Geebung 1 x 15	Geebung 2 x 15	Omnium 2 x 15	IPC 4 x 5	Energy Systems 1x25kW	Geebung 1 x 15	Geebung 1 x 15	Toshiba 1 x 14	NA 1 x 15	Sola Basic 3 x 12	Modulite 4 x 15
Diesel Generator Manu- facturer Power - kW	Deutz 28	Onan 37 (44kVA)	Lister 10.8	Cummins 18.7	Isuzu 16.5	Lister 17.6	Deutz 7.2/8.6	Onan 37 (44kVA)	Hino 30	Cummins 30	VC 30	Cummins 18.5	Deutz 28
Controller Manu- facturer/ Type	Solarex	Solarex	Programm- able	NA	Voltage relay	Micro- processor	AMPR Control	Solarex	Solarex	Toshiba	ON-OFF	NA	Solarex
Cable Distrib- tion -V Area <sup>2</sup> - mm <sup>2</sup>	NA 50	240AC 150	NA 140 (4x35)	240AC 25	240AC 250	240AC 240	240AC NA	240AC 150	240AC 150	240AC 100 (2x50)	240AC 240 (2x120)	240AC 95	240AC NA
Solar Fraction	.44	.44	.43	.43	.92	.41	.45	.44	.44	NA	.40	.41	.40
Tender Price \$	1 084 798	688 605	1 179 068	1 254 081	2 300 000	929 000	522 800	694 905	866 953	1 696 790	1 748 421	842 453 <sup>3</sup>	653 710

## NOTES:

- 1 As this battery operates at 240V, the rating is equivalent to 982 Ah at 110V.
- 2 System offered includes tracking. Effective rating of cells could be increased by 17% to 18.8 kW.
- 3 Price is not a true lump sum. It "does not include any holding charges, interest or profit. It is recommended that a conservative percentage is negotiated and added to the actual cost from time to time". Price also includes a 15% contingency item.