

## AU Optronics ( 友達光電 )- Taiwan

Electricity supply rates differs significantly during the day and any load shifting helps to reduce the overall operational costs.

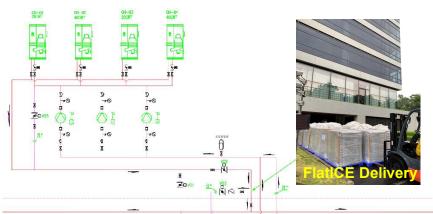




Existing chilled water based A/C system peak loads are shifted by simply adding 7.4 MWh (2,100 ton-h) +8C (47F) PCM thermal energy storage (TES) in 2 nos tanks with minimal modifications for the chilled water circuit.

Rectangular

CM Tank



| 30 54        | 8 W                                    |  |
|--------------|--|--|
| -0-          | Water tump &SE                         |  |
|              | Exister timesble connectors \$507,0000 |  |
| ₽            | T#154 Bild                             |  |
| ->~ <u>-</u> | Cank solve d AN                        |  |
| 1            | Cumoseter 5.101                        |  |
| -2           | Pressure singe 整力級                     |  |
| -1×1-        | Batterfir mives ###                    |  |
| -14-         | Flori is incomp values 提前 通用           |  |
| 6            | Expansion taxos AMPRIM                 |  |
| 4            | Floraster ISBN                         |  |



| _        | -           | × [v] ×   | 全小板 |
|----------|-------------|---|-----|
| Plate HX | _8 <u>*</u> | <u>a.</u>   |     |
|          | 1           |   |     |
|          | 後星剂         | のののである。<br>「「「「「「」」「「」」「「」「「」「「」「」「「」「」「」「」「」「」「」 |     |
|          |             | 新葉計 29 B*   |     |

By simply shifting the day peak loads to off-peak night period it is estimated not only a reduction of approximately 15~20% actual power consumption but most importantly avoiding day time punitive electricity rates overall annual running cost could be reduced dramatically. These savings are so impressive as it is estimated a pay back less than 2 years for the overall retrofit PCM-TES installation in their factory in Taiwan. Installation is carried by an investment company who has already installed a few similar PCM-TES system as an Energy Management Contract.