

**INTEGRATING CAPTIVE  
GENERATION SETS (CGS)  
WITH THE KARNATAKA GRID  
-- SOME FACTS --**

**TOTAL CAPACITY OF CGS  
IN KARNATAKA**

- **MORE THAN 1,000 MW**
- **ABOUT 1/3 OF INSTALLED  
CAPACITY OF OF KEB + KPC**

**LARGE CGS (> 500 KVA)  
ACCOUNT FOR ABOUT 1/2  
TOTAL CAPACITY OF CGS**

**LARGE CGS ARE  
INSTALLED IN ABOUT  
HUNDRED INDUSTRIES**

**LARGE CGS ACCOUNTED  
IN 1993-94 FOR 41% OF  
ELECTRICITY SALES BY  
KEB TO HT UNITS**

**ABOUT 60% ARE RUN ON  
DIESEL AND 40% ON STEAM**

**THESE INDUSTRIES MET 42%  
OF THEIR ELECTRICITY  
CONSUMPTION THRU CGS**

**BUT  
CGS ARE UNDER-UTILIZED --  
THEIR OVERALL PLF IS ONLY  
ABOUT 30%**

**SHARE OF CGS IN TOTAL  
ELECTRICITY CONSUMPTION  
HAS GONE UP FROM 21% TO  
42% BETWEEN 1985-86 AND  
1993-94**

**ABOUT 250 MW WILL  
BECOME AVAILABLE TO  
THE GRID  
IF, NOT ALL, BUT A  
REASONABLE FRACTION  
(SAY 25%) OF THE  
UNUTILIZED CAPACITY OF  
CGS IS INTEGRATED WITH  
THE GRID**

**INTEGRATION OF CGS  
WITH THE GRID WILL NOT  
SOLVE THE POWER  
PROBLEM, BUT WILL  
REDUCE IT**

**INTEGRATION OF CGS  
WITH THE GRID**

**A WIN-WIN-WIN SITUATION  
FOR CGS OWNERS,  
UTILITIES (KPCL AND KEB)  
AND CONSUMERS**

**CGS OWNERS CAN  
BENEFIT FROM GREATER  
UTILIZATION AND PROFIT  
FROM CGS**

**UTILITIES (KPCL AND KEB)  
CAN BENEFIT FROM  
AUGMENTATION OF SYSTEM  
CAPACITY WITH ONLY A  
MARGINAL INVESTMENT, IF  
REQUIRED, ON GRID  
CONNECTION**

**CONSUMERS CAN BENEFIT  
FROM GREATER AND  
MORE RELIABLE SUPPLY**

**ADVANTAGE CAN BE  
TAKEN OF THE  
FAVOURABLE POLICIES  
ALREADY IN PLACE**



**COMMON MINIMUM NATIONAL  
ACTION PLAN FOR POWER**

**INITIATED BY MINISTRY OF  
POWER AND AGREED TO BY  
CMs OF ALL STATES  
(OCTOBER & DECEMBER 1996)**

**CMNAP (PARAGRAPH X) :  
"STATE GOVERNMENTS WILL  
ENCOURAGE CGS ... STATES  
SHALL FORMULATE CLEAR AND  
TRANSPARENT POLICIES FOR  
PURCHASE OF POWER AND  
WHEELING CHARGES WHICH  
PROVIDE FAIR RETURNS TO THE  
CGS OWNERS..."**

## **KARNATAKA'S POLICIES RELATED TO CGS**

- **STATUTORY PROVISIONS WITH REGARD TO CGS IN HT UNITS**
- **WHEELING & BANKING FACILITIES**
- **TAX AND OTHER CONCESSIONS**
- **POLICIES WITH REGARD TO OTHER NON-CONVENTIONAL ENERGY SOURCES SUCH AS MINI- AND MICRO-HYDEL POWER PLANTS AND COGENERATION.**

**MAJOR INDUSTRIES (WITH ADEQUATE PROTECTION AND CONTROL DEVICES) ARE NOT EXPERIENCING ANY DIFFICULTY IN OPERATING CGS IN PARALLEL WITH THE GRID**

**ADEQUATE PROTECTION  
AND CONTROL DEVICES  
COST LESS THAN 1% OF  
THE TOTAL COST OF  
LARGE CGS**

**CGS CAN RUN AT 90-100%  
LOAD FOR AS MUCH AS  
8,000 HOURS PER YEAR  
(WITH RECOMMENDED  
MAINTENANCE OF ONCE  
IN 1,500 HOURS)**