

POWER PLANT STATUS & PERFORMANCE  
INDEX IEEE 762 2006

*August 2017, Jakarta*

Course: Operators of Geothermal Power Plant

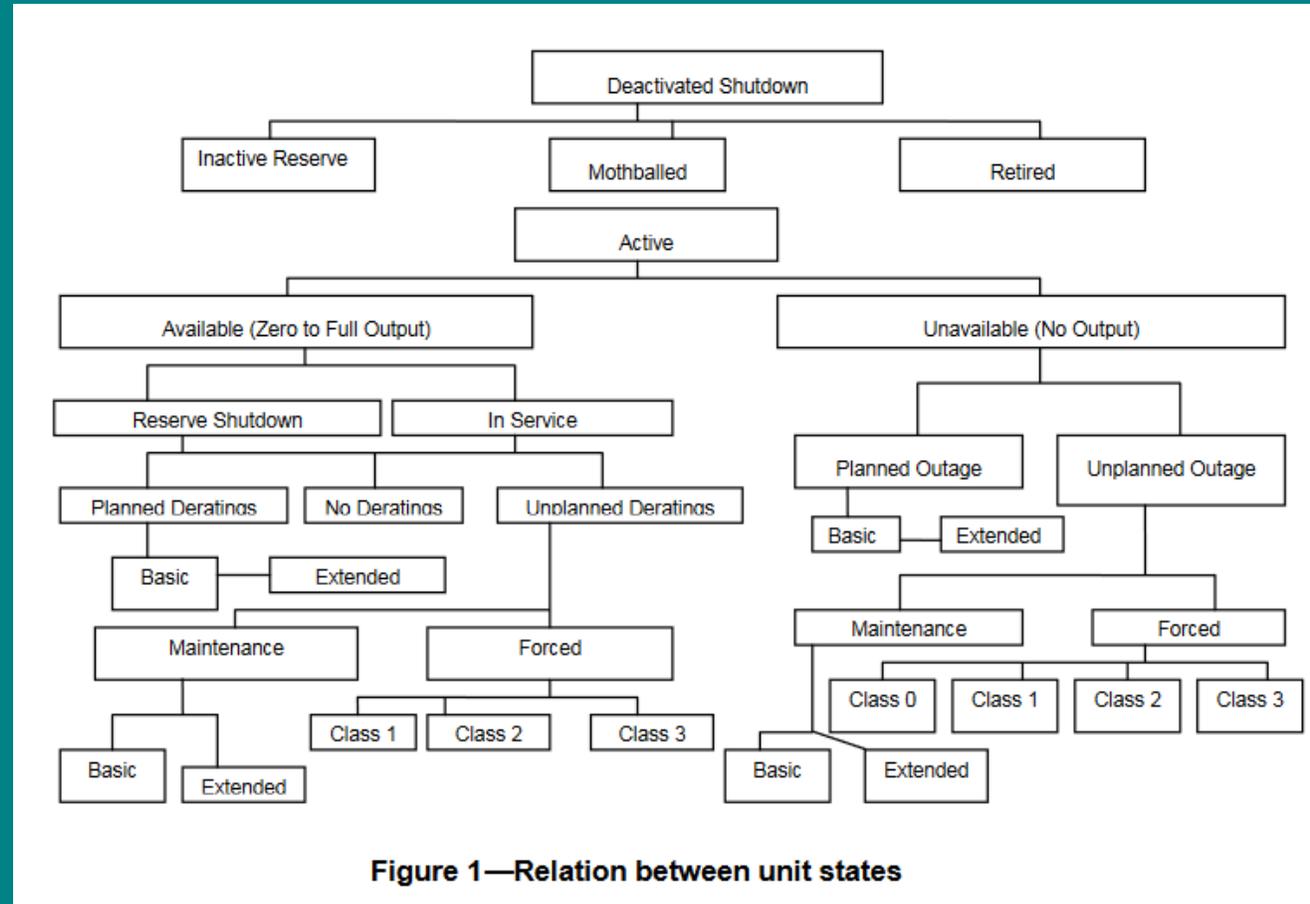
Hosting by: PPSDM EBTKE, Jakarta

NANANG KURNIAWAN

# Overview

- Plant Status
- Capacity vs Period Hours
- Capacity Factor
- Equivalent Availability Factor
- Equivalent Forced Outage Rate

# Plant Status



# Capacity VS Period Hours

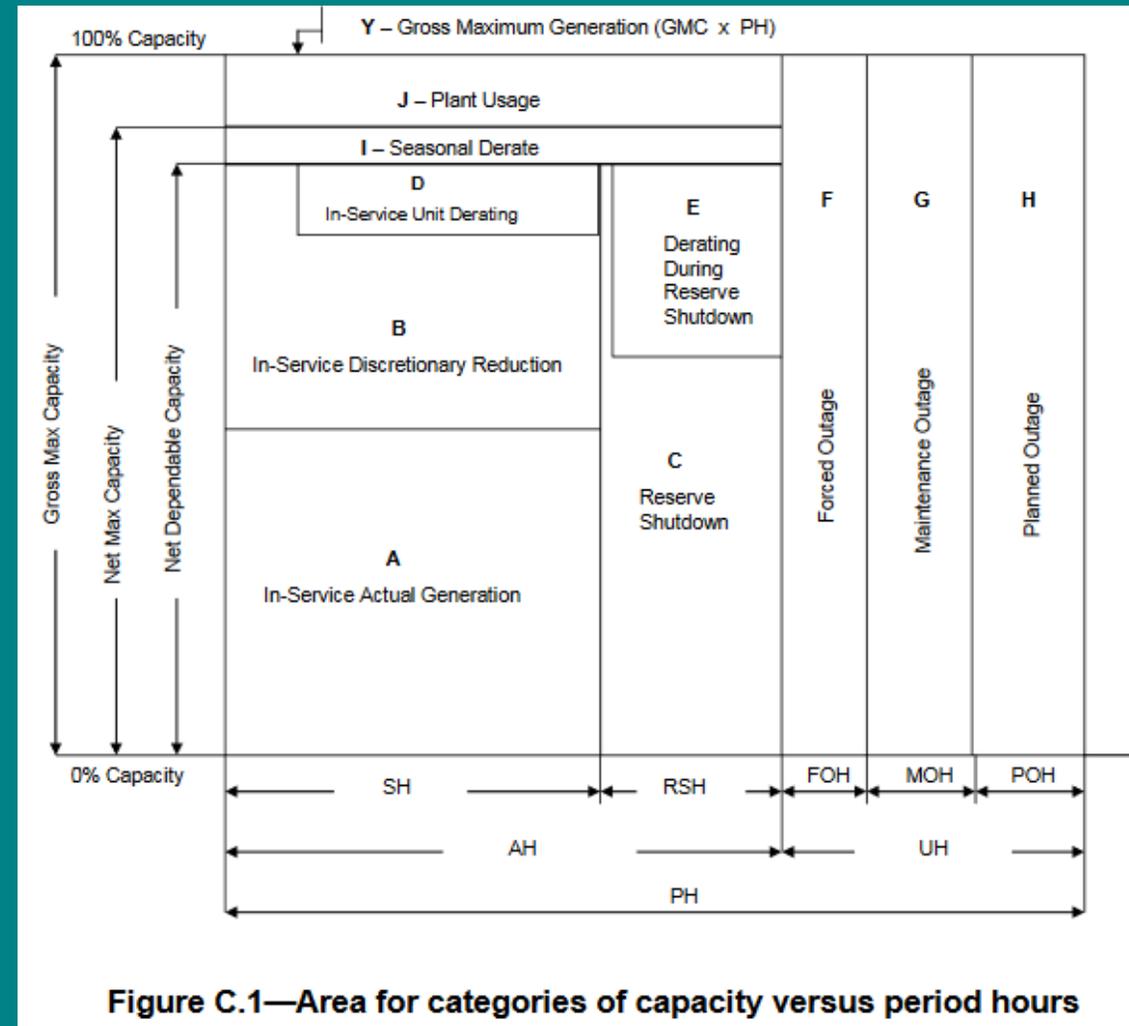


Figure C.1—Area for categories of capacity versus period hours

# Capacity Factor

$$NCF = \left( \frac{NAAG}{NMG} \right) \times 100$$

The net energy that was produced by a generating unit in a given period (NAAG) as a fraction of the net maximum generation (NMG). NMG is the period hours (PH) times the net maximum capacity (NMC)

# Equivalent Availability Factor

The EAF is the fraction of maximum generation that could be provided if limited only by outages and deratings:

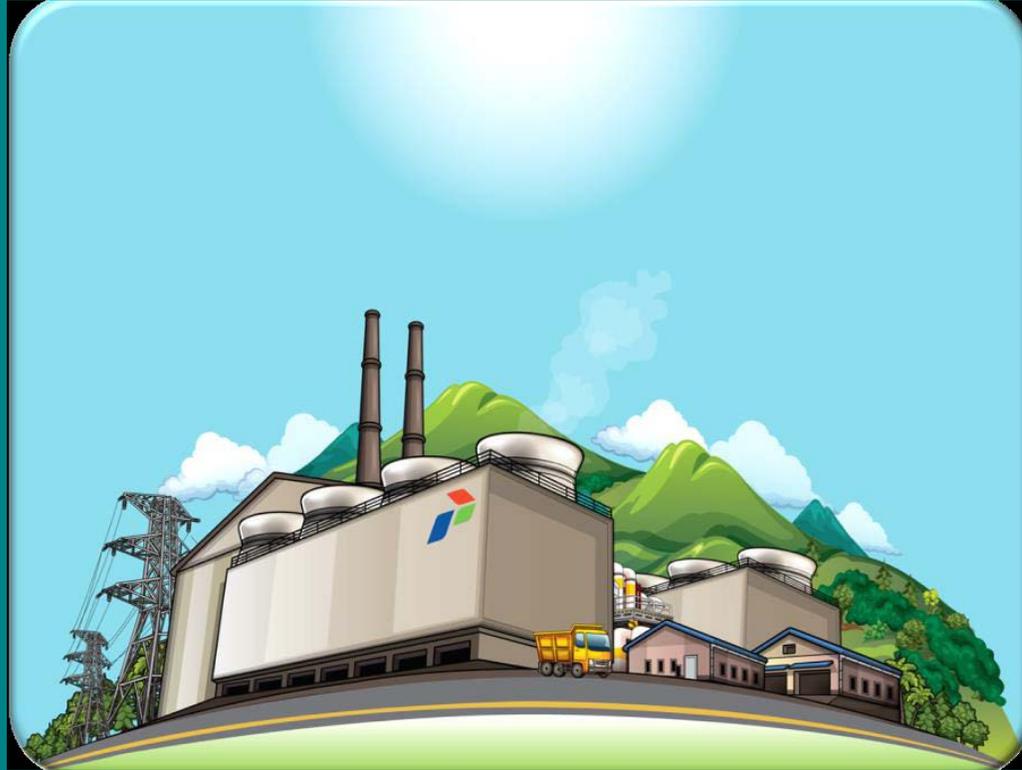
$$EAF = \left( \frac{AG}{MG} \right) \times 100$$

$$EAF = \left( \frac{AH - (EUNDH + ESDH)}{PH} \right) \times 100$$

# Equivalent Forced Outage Rate

A measure of the probability that a generating unit will not be available due to forced outages or forced deratings.

$$EFOR = \left( \frac{FOH + EFDH}{SH + FOH + ERSFDH} \right) \times 100$$



THANK YOU

