frequency measurement in a power system

- Speed of synchronous machine
  - Possible start

2. Meter - voltage zero crossings
   - Average over a window

3. Some inverters manufacturers - \( \Theta(t) \) from PLC
Older version of IEEE 1547

Anti-islanding on distribution.
\[ |V_A + J V_A| = V_{NA6} \]
Separate positive & negative sequence $V^+, V^-, V_0$. $\bar{V}_a, \bar{V}_b, \bar{V}_c$. $V_a, V_b, V_c$. $V_0, V^+, V^-$. $V_0$. $V_a$. $V_0$.
Other control functions to determine $(\ell_{eff} \& \ell_{off})$

1. From open-loop command

2. From $P_{ref}, Q_{ref}$

3. DC power pole to determine $P_{ref}$ 
   - Then $\ell_{eff}$

- FACTS
- HVDC
STATCOM → Static synchronous compensation

- Control $Q_{inj}$ - dynamic reactive power
- On regulate $1V_{ac}$
- Only a cap on dc link