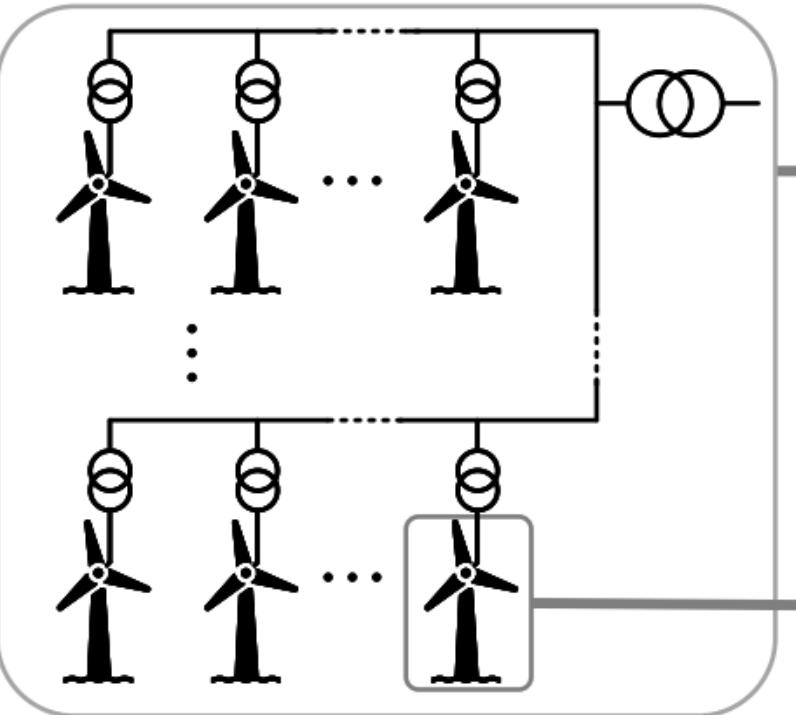


Reference wind farm



Wind farm parameters

- Cable details
- # of turbines
- Grid strength
- Voltage levels
- Filters

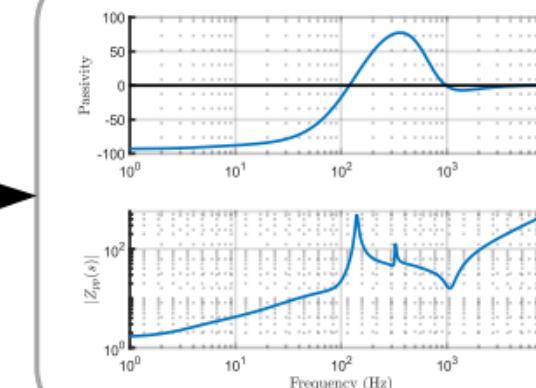
Wind turbine parameters

- Power rating
- Power references
- Control mode
- Control parameters

Algorithm(s) for the stability analysis and control of large offshore wind power plants

```
% mag=1./real(Z.ResponseData);
for out=1:size(mag,1)
    nexttile(t2);
    psemilogx('out',squeeze(mag(out,:)));
    % ploglog('out',squeeze(mag(out,:,1)));
    grid on;hold on;
    xlabel('Frequency (Hz)');
    ylabel([z.OutputName(out)
    yticks(floor(min(phase(out,1,:))/90):90:ceil(
    if out==1
        title('Eig 1');%,'Interpreter','latex');
    else
        title('Eig 2');
    end;
```

Analysis tools



Risk of harmonic instability

