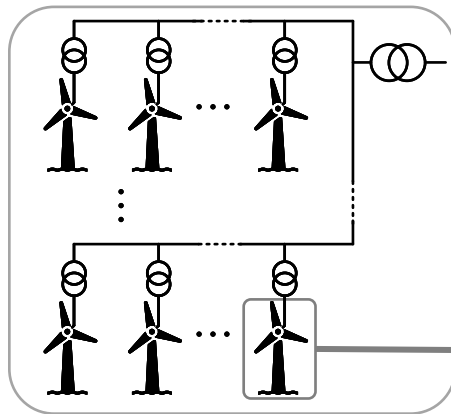


Reference wind farm



Wind farm parameters

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

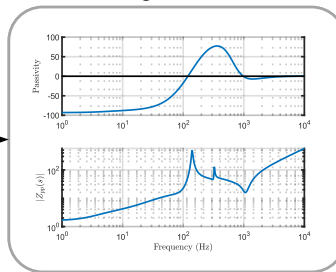
Wind turbine parameters

- 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(fout,squeeze(mag(out,:)));  
    % p=loglog(fout,squeeze(mag(out,1,:)));  
    grid on;hold on;  
    xlabel('Frequency (Hz)');ylabel([Z.OutputName(out)  
    % yticks(floor(min(phase(out,1,:))/90):90:cell(  
    if out==1  
        title('Fig 1');%,'Interpreter','latex');  
    else  
        title('Fig 2');
```

Analysis tools



Risk of harmonic instability