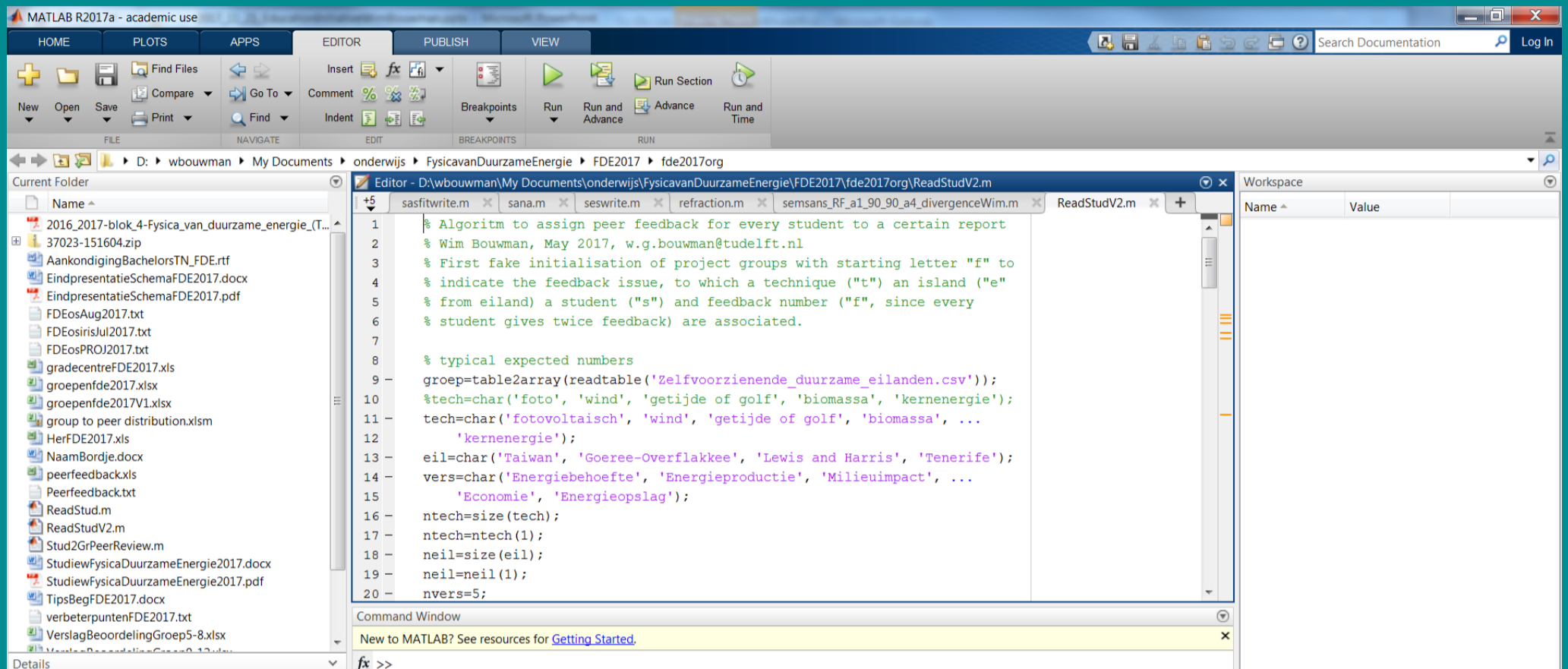


Peer feedback reports

2nd year BSc "Physics of sustainable energy"



The screenshot shows the MATLAB R2017a interface. The main window displays a script named 'ReadStudV2.m' with the following code:

```
1 % Algorithm to assign peer feedback for every student to a certain report
2 % Wim Bouwman, May 2017, w.g.bouwman@tudelft.nl
3 % First fake initialisation of project groups with starting letter "f" to
4 % indicate the feedback issue, to which a technique ("t") an island ("e"
5 % from eiland) a student ("s") and feedback number ("f", since every
6 % student gives twice feedback) are associated.
7
8 % typical expected numbers
9 groep=table2array(readtable('Zelfvoorzienende_duurzame_eilanden.csv'));
10 %tech=char('foto', 'wind', 'getijde of golf', 'biomassa', 'kernenergie');
11 tech=char('fotovoltaisch', 'wind', 'getijde of golf', 'biomassa', ...
12 'kernenergie');
13 eil=char('Taiwan', 'Goeree-Overflakkee', 'Lewis and Harris', 'Tenerife');
14 vers=char('Energiebehoefte', 'Energieproductie', 'Milieuimpact', ...
15 'Economie', 'Energieopslag');
16 ntech=size(tech);
17 ntech=ntech(1);
18 neil=size(eil);
19 neil=neil(1);
20 nvers=5;
```

In the course physics of sustainable energy students work 4 weeks in 20 groups on the question how to make an island self sufficient in energy with one sustainable energy technology. For example: can Texel be self sufficient with solar power? The students have to answer five questions, such as: How much energy is needed? How many resources are available on the island? What will be the energy price? To keep up the pace and the quality Teaching Assistants gave feedback on the draft answers to these questions. This was a lot of work for them and it took too much time.

Last year I introduced peer feedback to the draft answers. Each student had to give feedback on a draft report by another group studying another island and another technology. This puts some restraints on which student reads which draft. I have written a Matlab function to do this assignment.

The results were good:

- Better quality and shorter reports
- Faster feedback for the students
- Less work for the Teaching Assistants

Contact

Name(s): Wim G. Bouwman

E-mail: w.g.bouwman@tudelft.nl

Faculty: Applied Sciences (RST)

Phone: 015 27 85687

