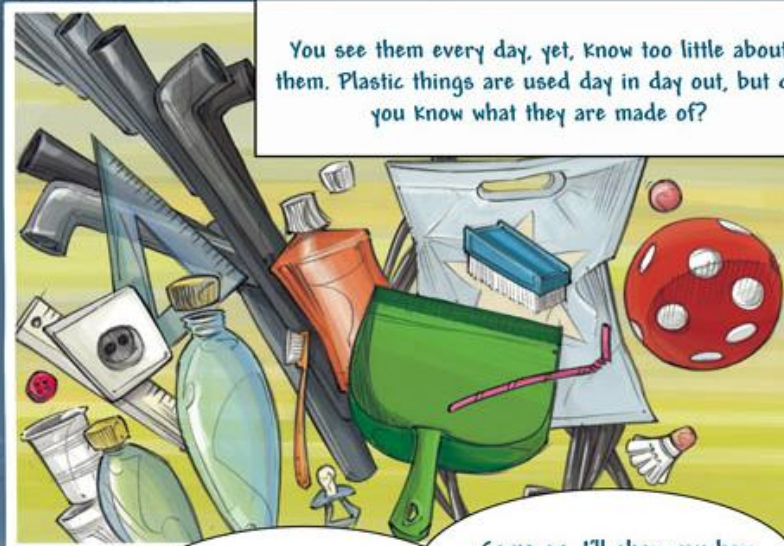


This comic strip takes you on an exciting trip through how plastics are made at TVK.



MEMBER OF THE MOL GROUP



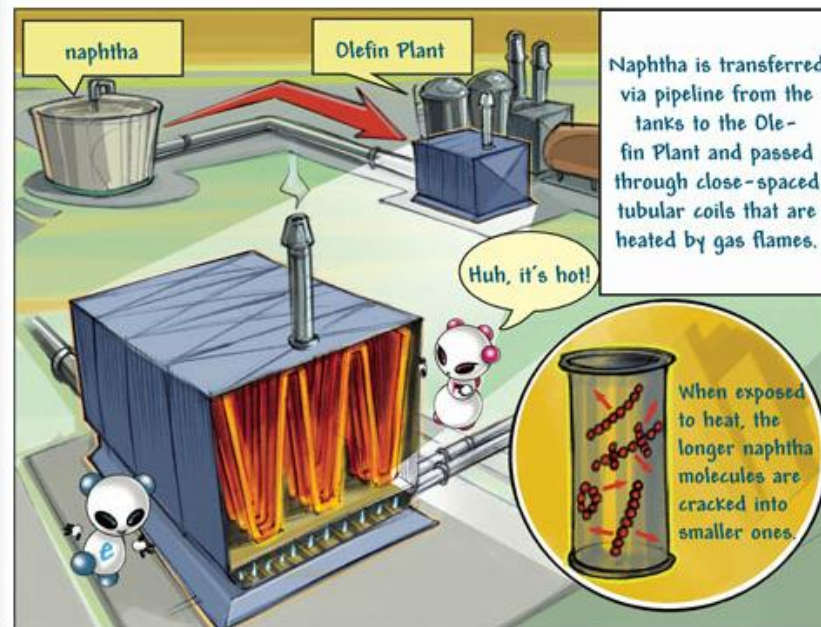
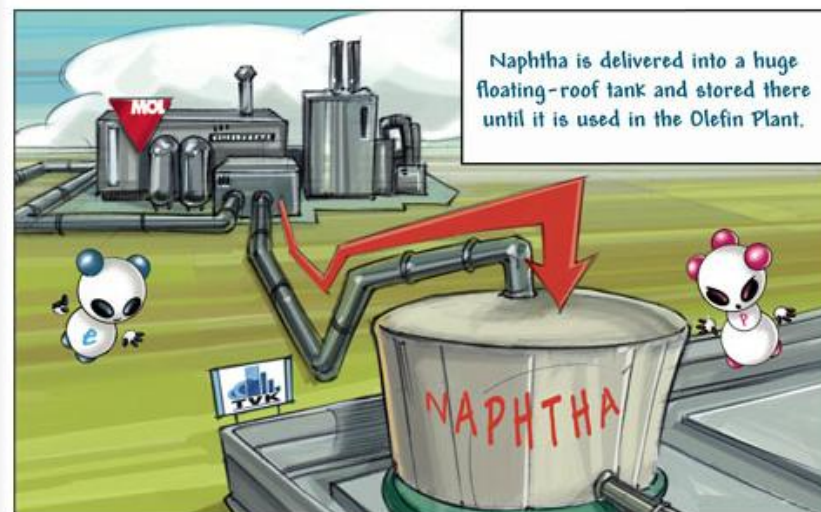
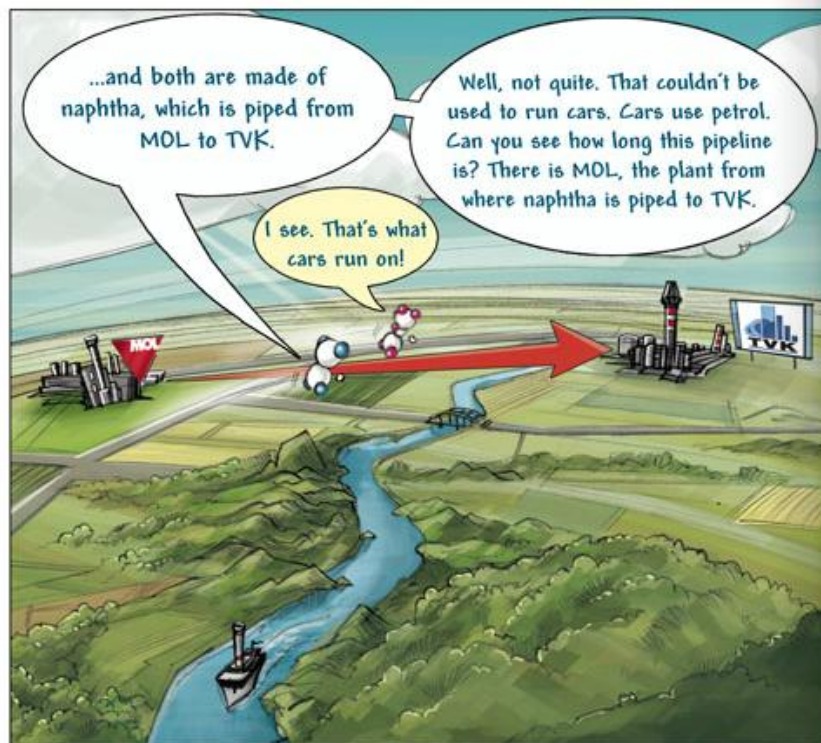
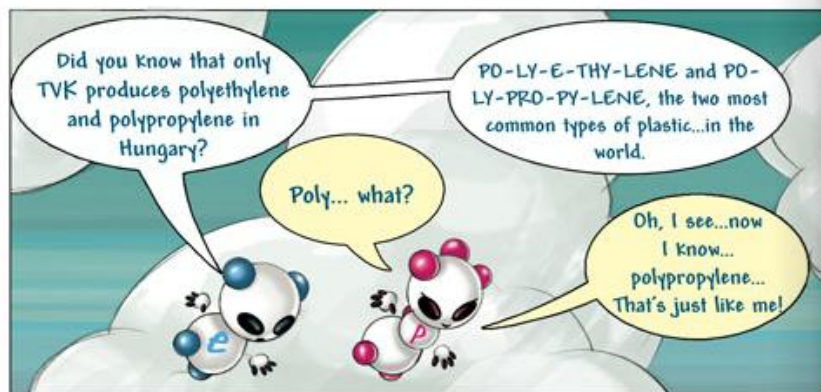
You see them every day, yet, know too little about them. Plastic things are used day in day out, but do you know what they are made of?

Hi! My name is Ethylla, and she's my sister, Propylla.

Come on, I'll show you how plastics are made. Let's head to TVK in Tiszaújváros!

Hello!





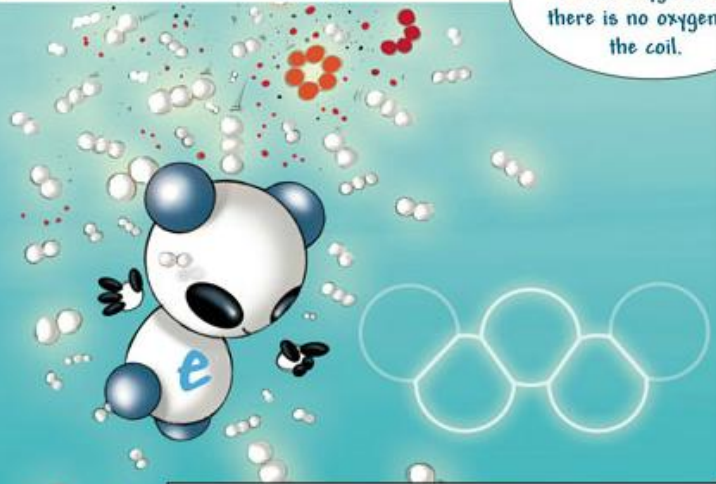


Tubular coils are heated to 850 degrees C, first causing naphtha to become gaseous, and creating ethylene and propylene molecules.

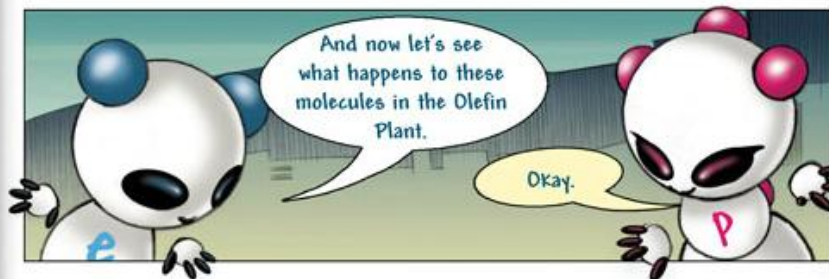
Wow! And how come the whole thing doesn't explode?



There is no explosion without oxygen. And there is no oxygen in the coil.



Naphtha molecules are not identical and, when exposed to heat, may fall into different bits and pieces. Like this...



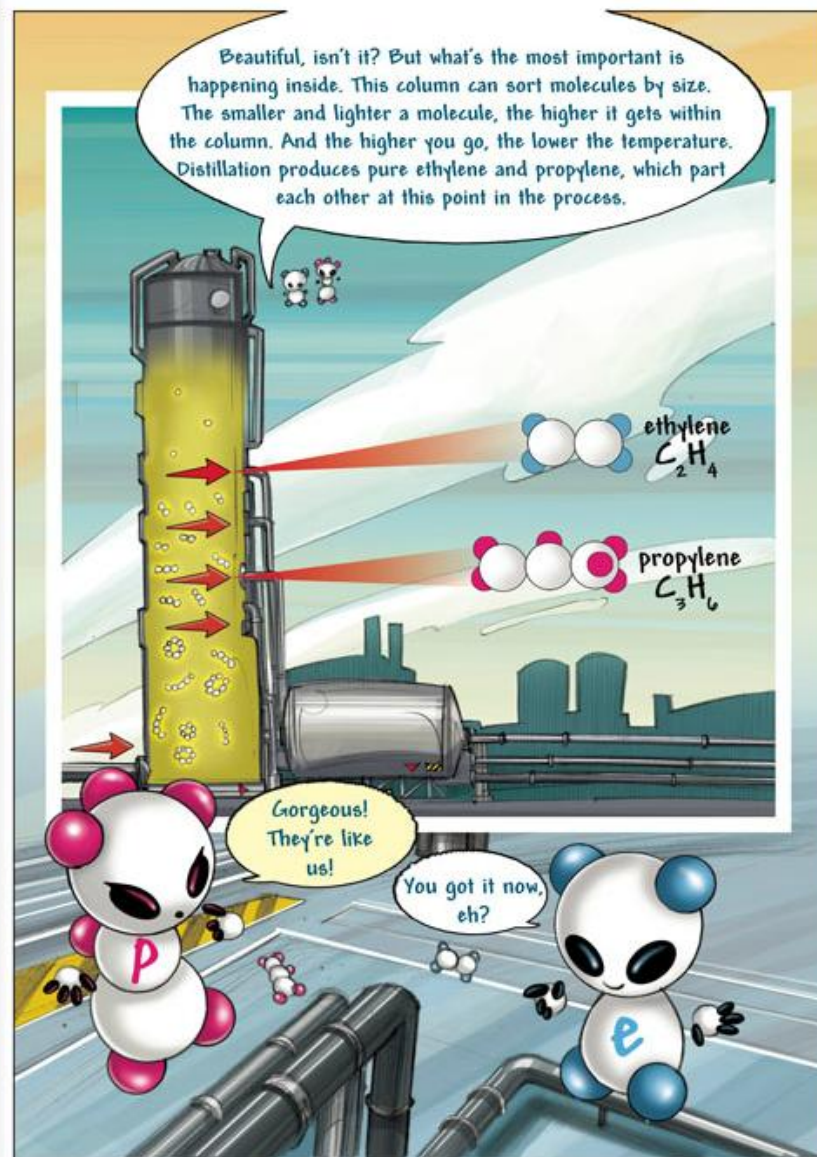
And now let's see what happens to these molecules in the Olefin Plant.

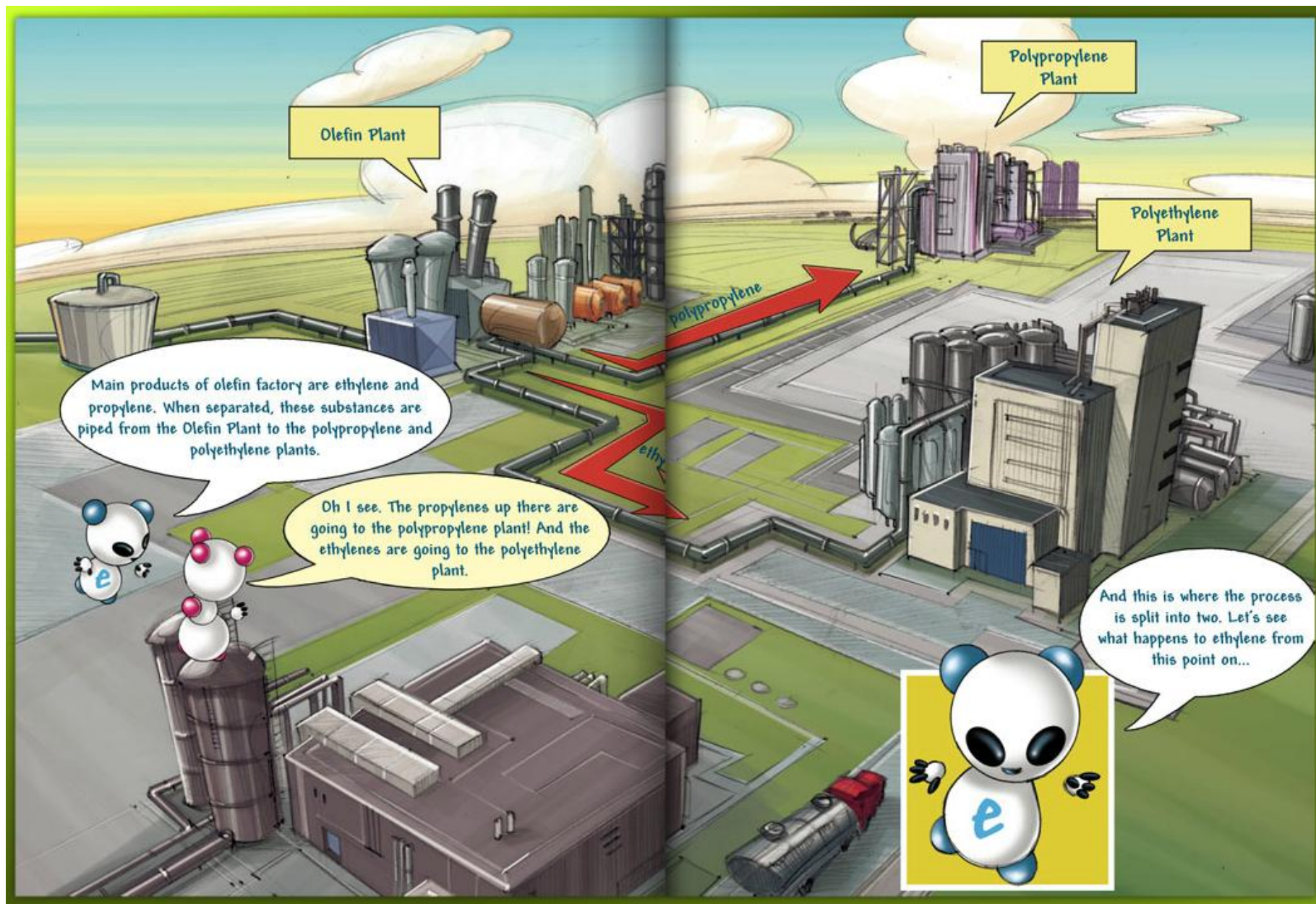
Okay.



Wow! Look how many pipes and drums and columns! Just like a space station.

Yes indeed. I'm gonna show you the most exciting part...You'll be amazed, I bet.





Olefin Plant

Main products of olefin factory are ethylene and propylene. When separated, these substances are piped from the Olefin Plant to the polypropylene and polyethylene plants.

Oh I see. The propylenes up there are going to the polypropylene plant! And the ethylenes are going to the polyethylene plant.

Polypropylene Plant

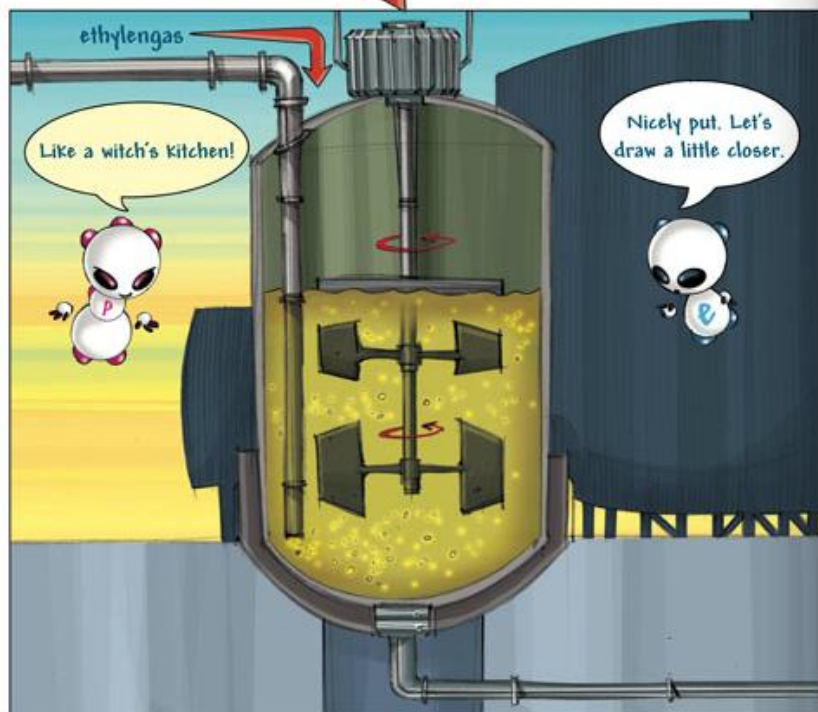
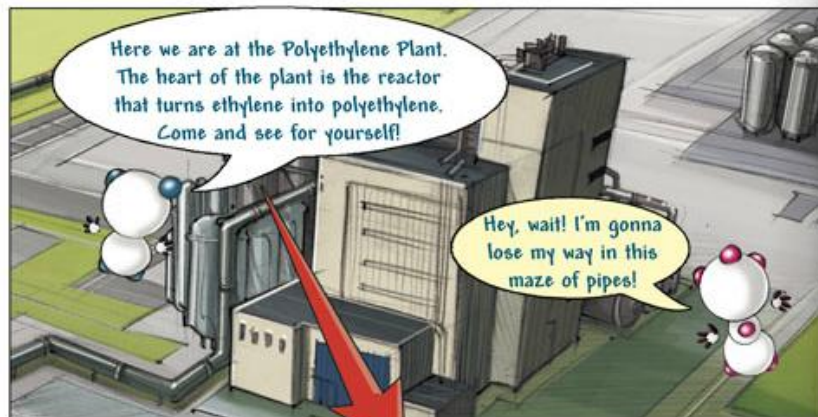
Polyethylene Plant

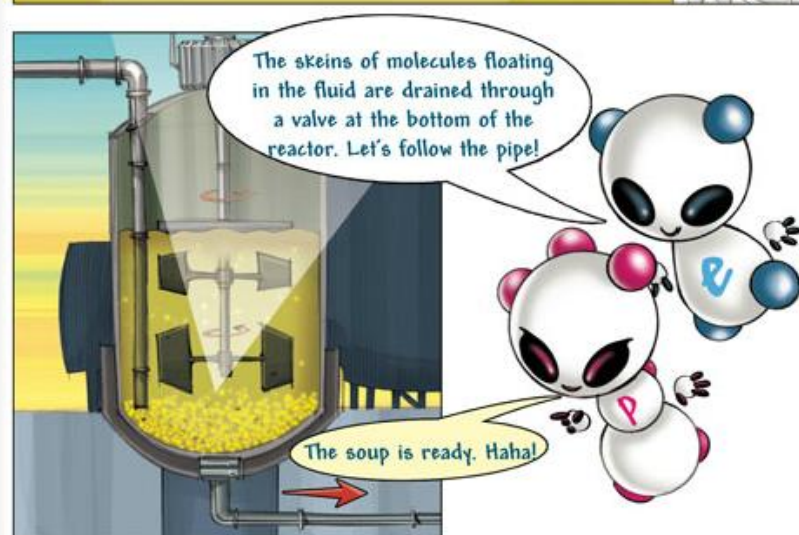
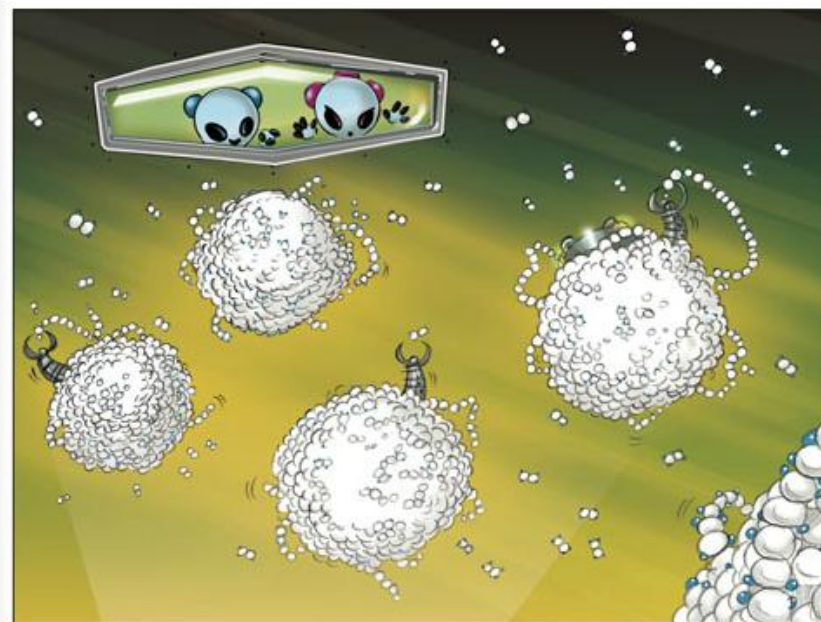
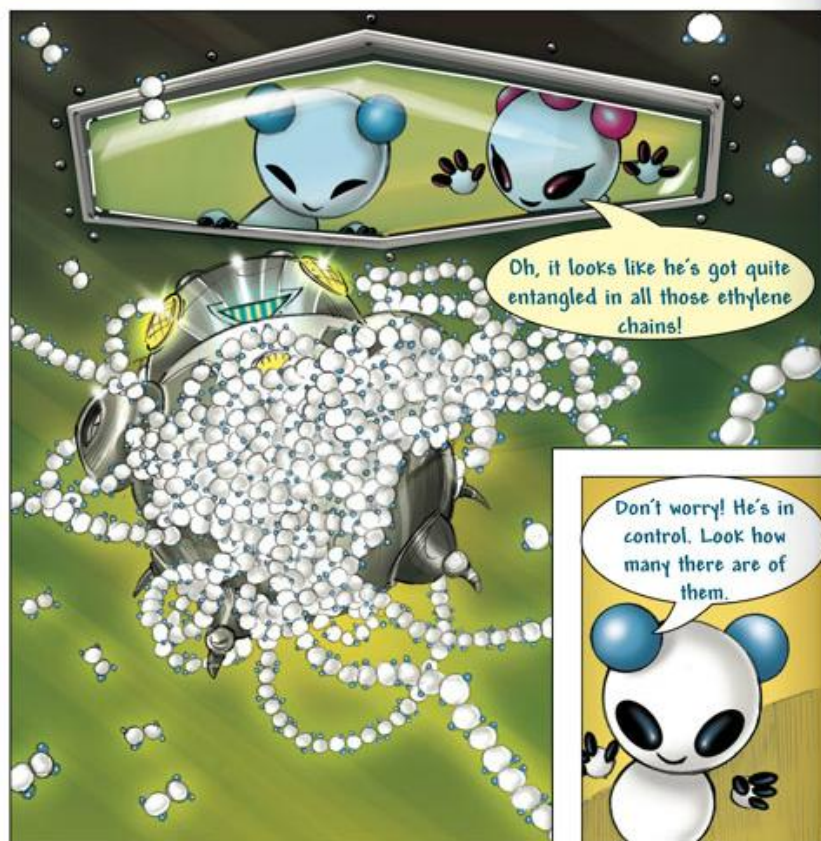
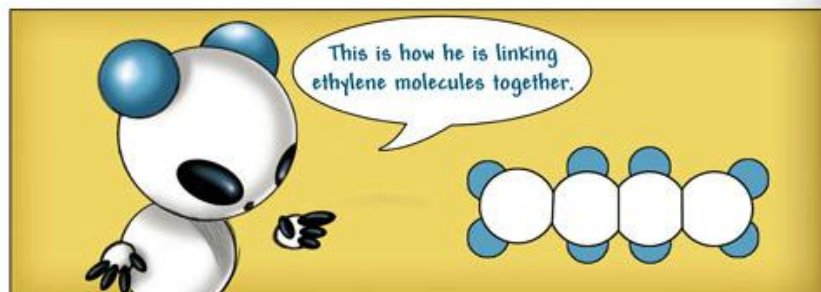
polypropylene

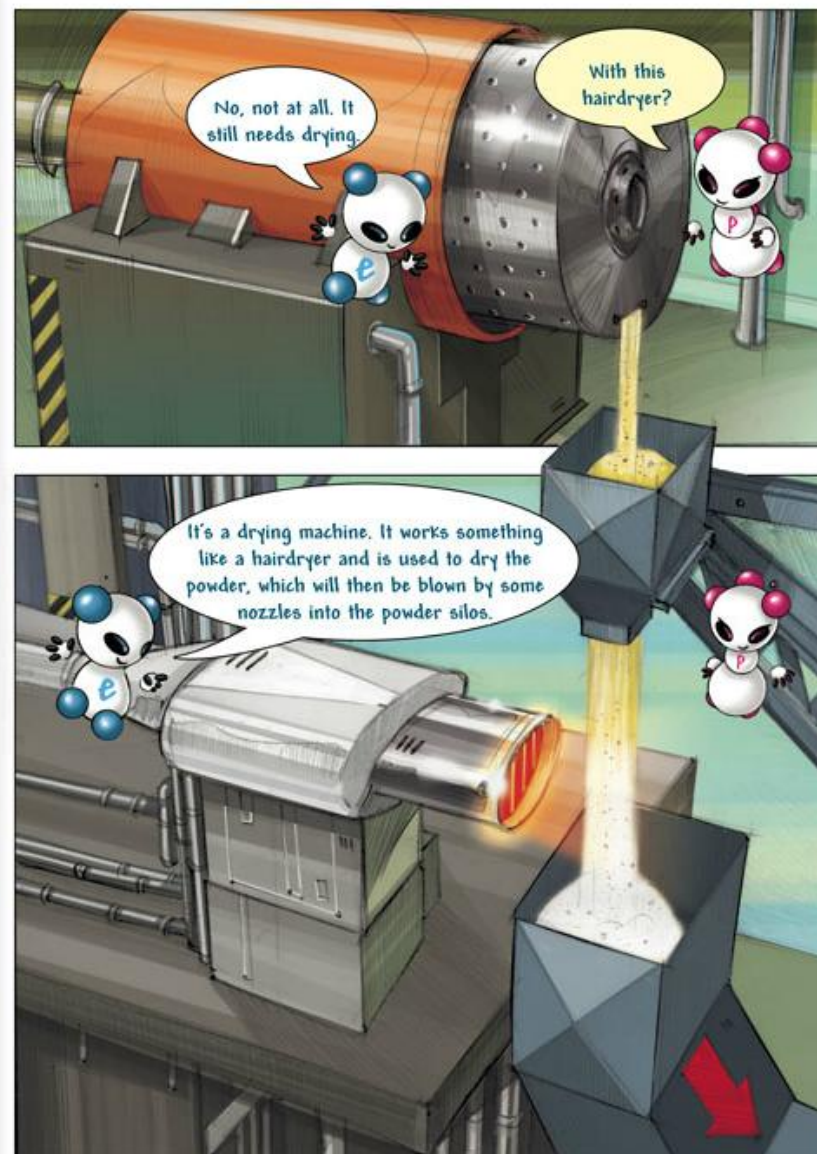
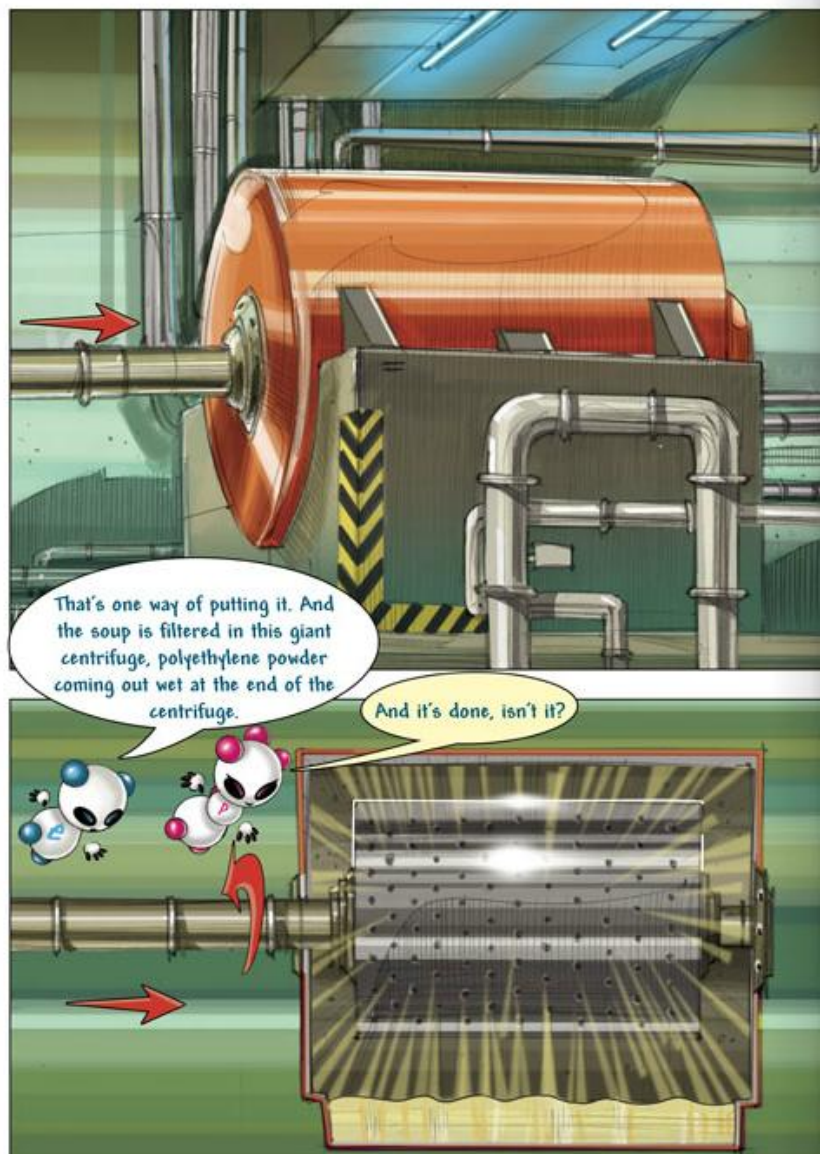
ethylene

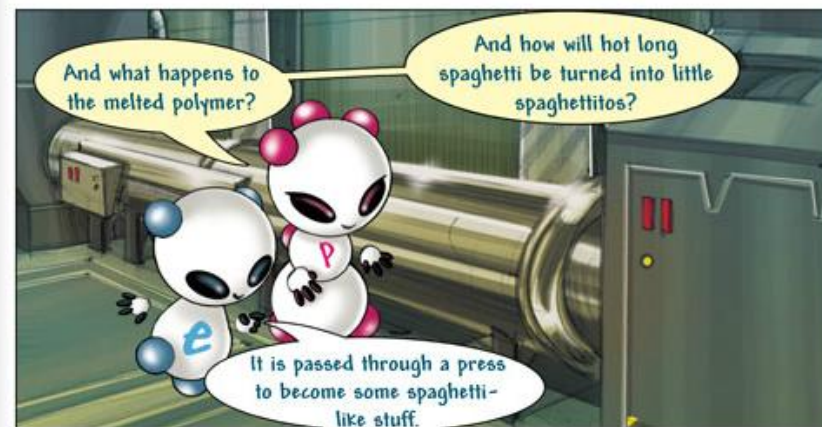
And this is where the process is split into two. Let's see what happens to ethylene from this point on...

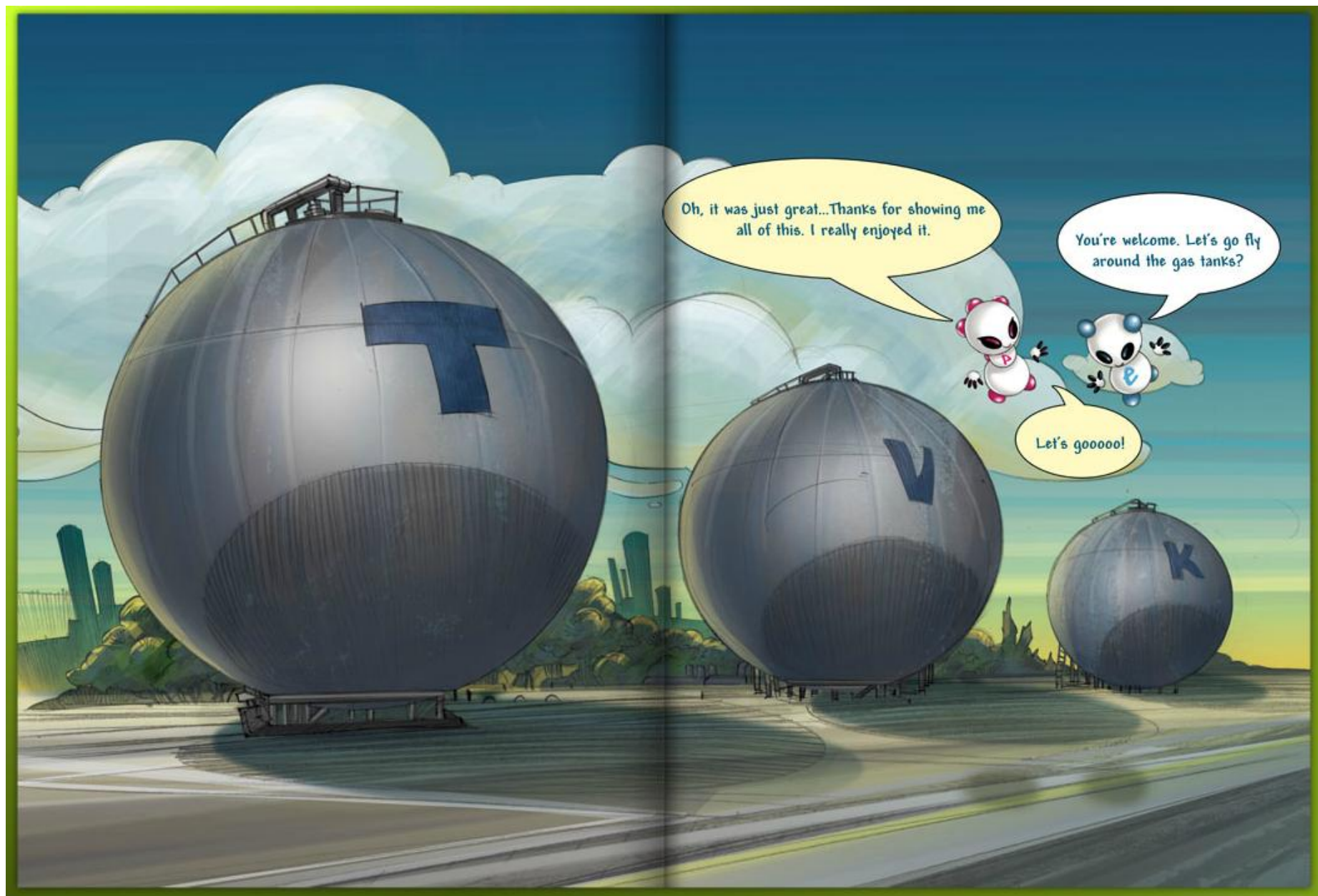


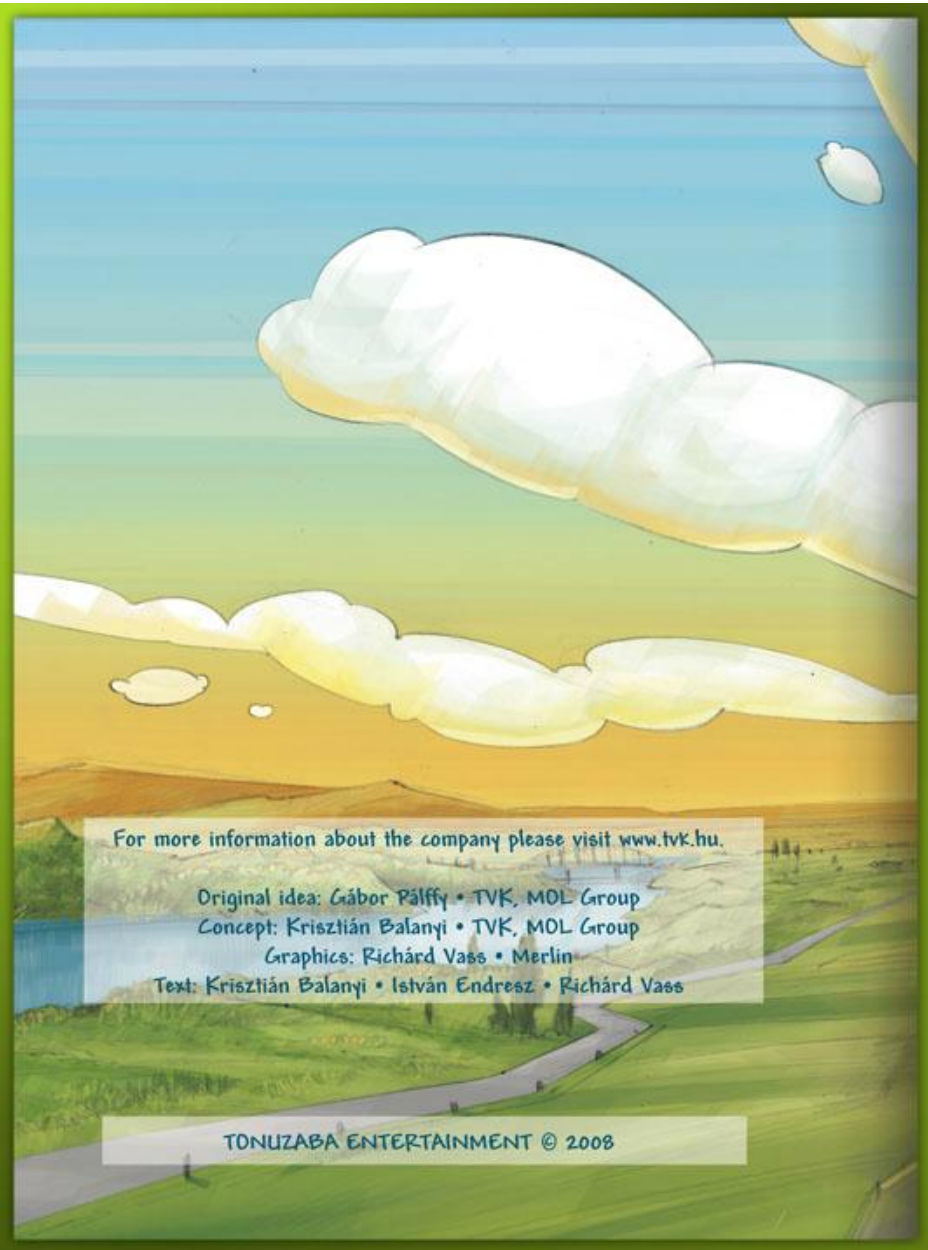












For more information about the company please visit www.tvk.hu.

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Text: Krisztián Balanyi • István Endresz • Richárd Vass

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