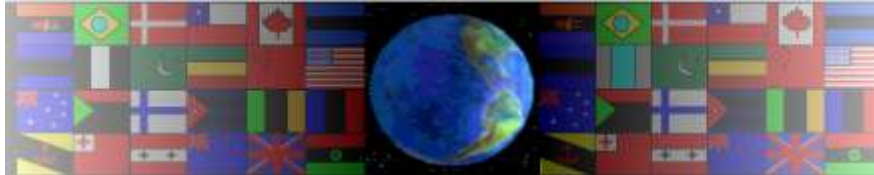


# THE PROPOSED BRISTOL CHANNEL TIDAL POWER SCHEME

V.Ryan © 2000 - 2009

On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

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1. In general terms, how can the action of the tide in an estuary, be used to generate electricity?

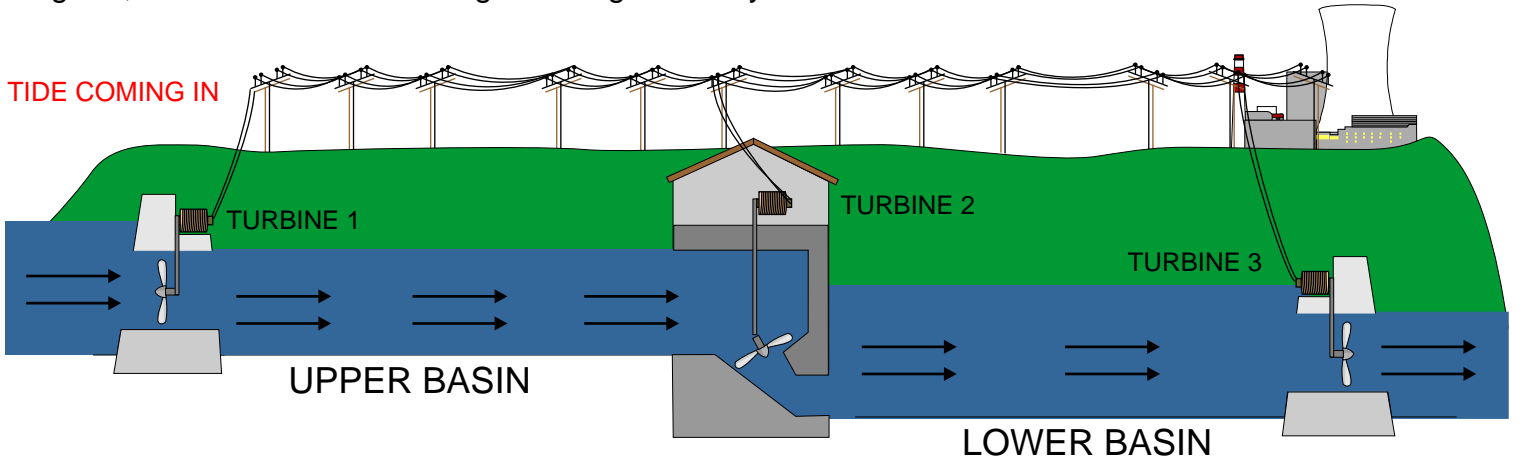
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2. The diagram below represents the proposed Bristol Channel scheme, in the UK. With the aid of the diagram, describe the scheme for generating electricity.



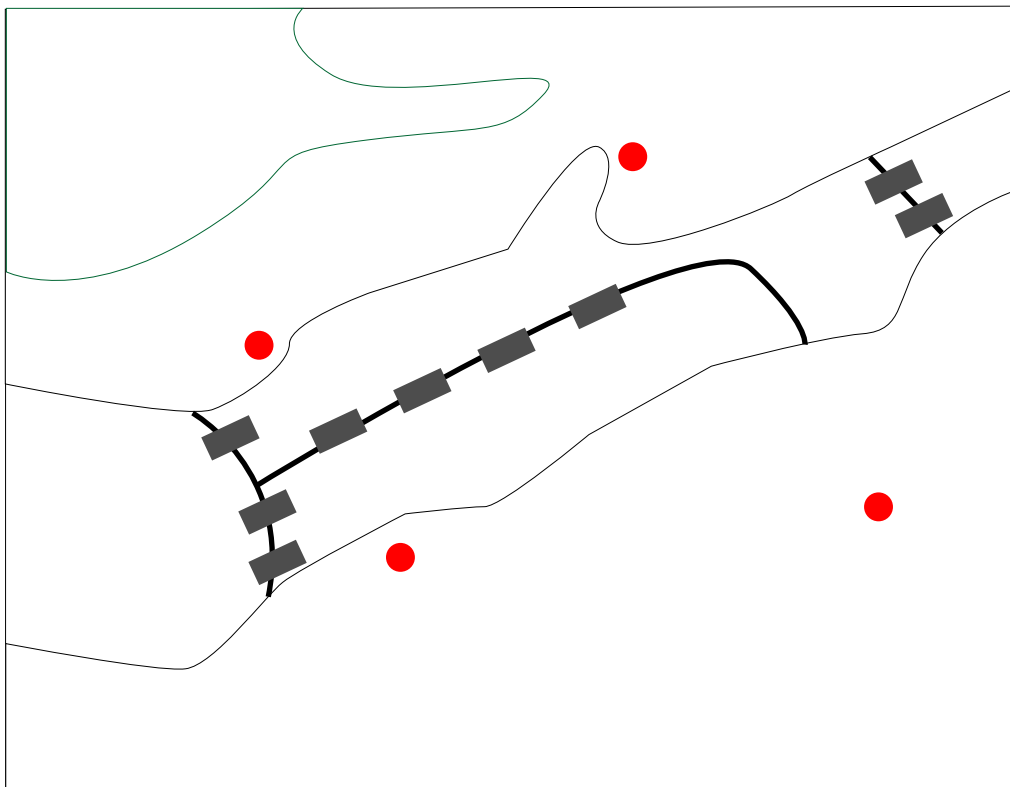
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3. The outline map (below) shows the location of the proposed scheme. The list of names relate to the map. Write the names in their correct positions, on the map. Add arrows to show the movement of the tide. Add appropriate colour and shade to the map.



- NEWPORT
- CARDIFF
- WESTERN-SUPER-MARE
- BRISTOL
- TURBINES
- HIGH BASIN
- SLUICES

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4. How do you think building a massive tidal power station will affect the environment ? The key points below may help you answer the question.

WILDLIFE HABITATS DESTROYED      BUILD UP OF SILT      LOSS OF FARM LAND NEAR THE SITE  
DAMAGE TO SEA LIFE      NOISE AND POLLUTION DURING CONSTRUCTION

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4. What could be the benefits of building the Bristol Channel scheme ?

RENEWABLE ENERGY      COST EFFECTIVE OVER TIME      TOURISM      LOCAL ECONOMY  
JOBS DURING CONSTRUCTION      LONG TERM JOBS AFTER CONSTRUCTION  
DEVELOPMENT OF RENEWABLE ENERGY TECHNOLOGY

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5. Do you think tidal power projects such as the Bristol Channel scheme are a good idea ? Explain your answer.

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