



Fuelling the Future

VICTORIA ROBB

NATIONAL MINING MUSEUM SCOTLAND

Lady Victoria Colliery



- 5 star visitor attraction
- Newtongrange, Midlothian
- Lady Victoria Colliery, 1895 – 1981
- Ownership: Lothian Coal Company until nationalisation in 1947
- Ex-miner led tours, audio tours, formal & informal learning programmes, exhibitions, research library, events, & outreach, etc.

Image: John, ex-miner Tour Guide, outside NMMS

Winding Engine



Images: Winding Engine at NMMS (featuring Andrews, ex-miner Tour Guide)

Steaming Ahead

“Culture is an important resource for both climate change mitigation and adaptation”

Ernesto Ottone R., UNESCO Assistant Director-General for Culture.



Three strands

1. Advocacy

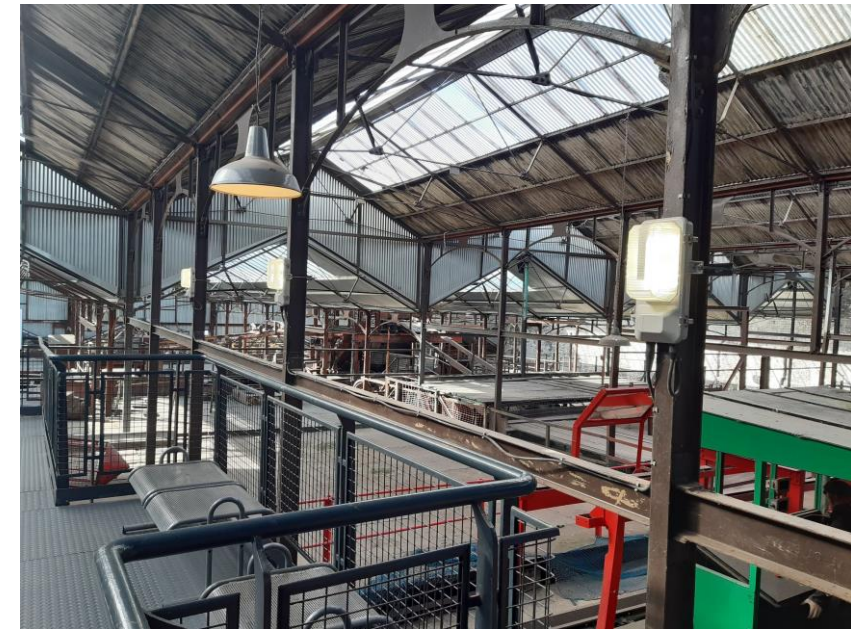
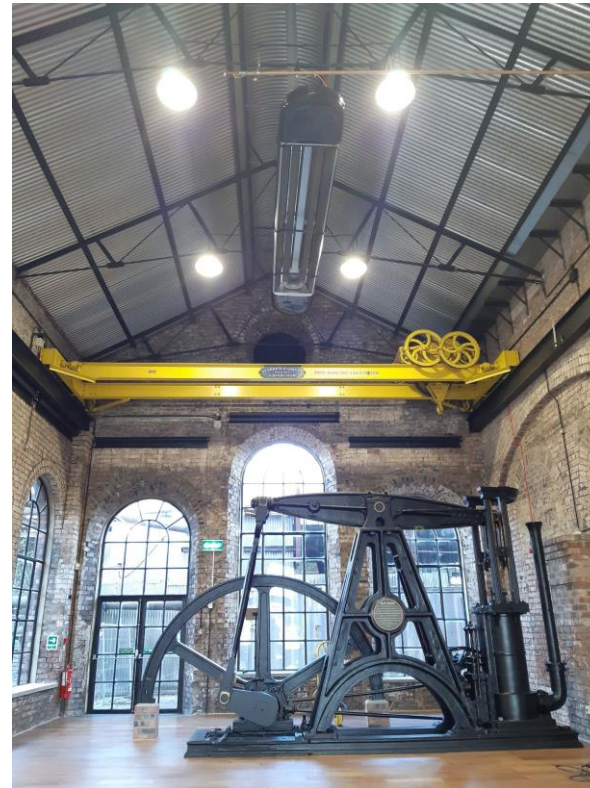
- Exhibitions & Events
- Sustainability/ Best Practice
- Aligning environmental values and stewardship with museum values and mission

2. Energy efficiency

- Upgraded to LED lighting
- Reduce energy use
- Protection of green spaces

3. Education

- Learning for Sustainability



Images: New LED lighting at NMMS

Learning for Sustainability

- Learning for Sustainability is an entitlement for all learners within Scotland's curriculum and all education practitioners are expected to reflect the principles of Learning for Sustainability within their practice as set out in the [Vision 2030+ Report](#) and the General Teaching Council of Scotland [Professional Standards](#).

From:

<https://education.gov.scot/improvement/self-evaluation/climate-change-in-scottish-education/>



Curriculum for Excellence



“...learners are educated through their landscape and understand their environment, culture and heritage; and develop a sense of place and belonging to their local, national and global community, with a deep connection to the natural world.”

<https://education.gov.scot/media/oejfidae/cli/matechangeinscottisheducationbriefing140819new.pdf>

Image: school visit at Winding Engine

Formal Education Programme

Heritage education lends itself perfectly to interdisciplinary learning:

- STEM
- Art
- Social Studies
- Health & Wellbeing

We're building in discussions about energy and our social responsibility across activities, resources and workshops!



Image: Children's Art Week 2020, Julia aged 10

Energy Battle/ Powering Up



- Powering Up – partner project with NMS
- Coal as a source of non-renewable energy compared to either wind, solar or hydro options (selected by teacher in advance) as a renewable energy source
- Opened our offer – made us more relevant
- Improved problem solving and reasoning to draw conclusions such as reliability of energy sources vs environmental impact

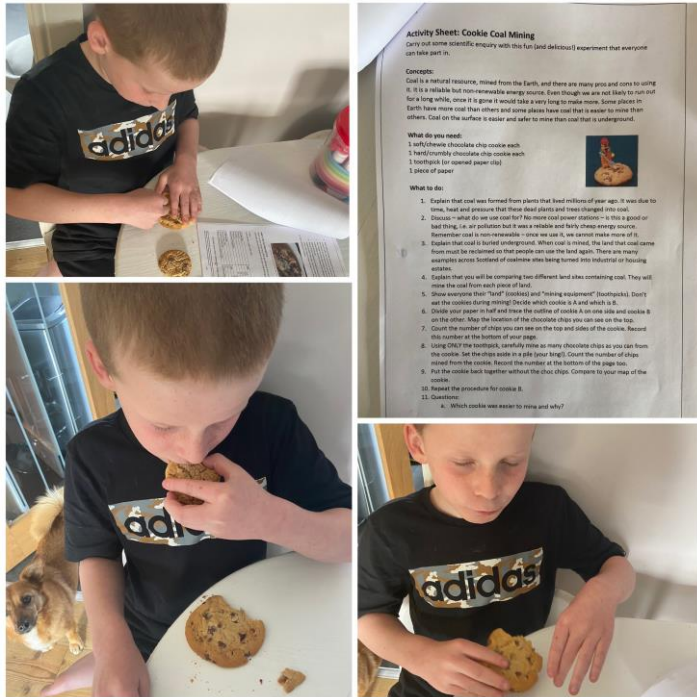
Image: Powering Up Workshop at NMMS

Energy Lab



- Children turn their creative problem-solving energy towards engineering a sustainable energy future for us all!
- Transportable and will be linked with new educational spaces within NMMS

Activity: Cookie Coalmining



Curriculum For Excellence – STEM (maths & environmental studies), Social Studies, Global Citizenship

Image: Primary schools taking part in activity

Outdoor Learning



- Promote ex-mining landscapes as green spaces
- Outdoor Journeys – Questioning, Researching, Sharing
- Developing a sense of place – connecting past people and places
- STEM
- Mining Minibeasts

Image: Nursery pupils, Mining Minibeasts

Y2K/Mayfield Explorers



- Community based youth charity working with disadvantaged young people (11-18)
- Youth-led project – “you learn a bit in school but you don’t think the place you live in as important or interesting as others do”
- Aim: to develop a sense of place in the young people. Long term aim to reduce vandalism
- Favourite things – learning new skills, caring more for the stories and histories on their doorstep, improved respect between generations, caring for their local environment

Image: Mayfield Explorers at old Easthouses Colliery site

Y2K/Mayfield Explorers Cont.



*“Through interpretation, understanding;
through understanding, appreciation;
through appreciation, protection.”*

- Freeman Tilden

Awards:

Heritage Hero Award

Dynamic Youth Awards

Saltire Volunteering Awards

Image: Mayfield Explorers receiving award at NMMS/exhibition

Thank you



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