

INTERNATIONAL DEFENCE

STRATEGIC DIRECTION

ORGANISATIONAL STRUCTURE
REFLECTS SHORT TO LONG TERM NEEDS

BUYING LOCAL
ENSURING WE HAVE WHAT WE NEED TO FIGHT AND WIN

UNMANNED AERIAL REFUELLING DRONES

AVOID SWAPPING RISK FOR ANOTHER RISK

SMALL CHANGES ADD UP TO BIG DIFFERENCES

SAVING ENERGY = NEW CAPABILITIES

COMPETITIVE ADVANTAGE

PRODUCING OUR OWN FUEL

FORCE A REDUCTION IN DEMAND | **SUBSTITUTION DIVERSIFICATION** | **SUPPLY CHAIN RESILIENCE** | **ENTERPRISE WIDE ENERGY VISIBILITY**

CLIMATE CONCERNS

COMBUSTION | **LIQUID FUEL** | **BASE CAMPS** | **ON THE MOVE** | **ROBOTICS** | **DRONES** | **ELECTRICS** | **ALTERNATIVES** | **SHIFTED** | **COMBUSTION**

CHINA | **RUSSIA** | **HOMELAND**

THREATS!

IN ORDER TO SAVE LIVES

60% DEATHS

MOST DEATHS IN IRAQ WERE DUE TO ATTACKS ON FUEL CONVOYS - CAN THIS BE AVOIDED? UNNECESSARY RISK

NATO ENERGY MANAGER

REDUCE'S IMPROVE RESILIENCE

WE CAN'T DO THIS ALONE

ADAPTION | **COMPROMISE**

TRI-SERVICE ORGANISATION | **PARTNERSHIPS WITH INDUSTRY**

MATURED HYDROGEN | **CO2** | **CARBON TAX**

HEAT PRODUCTION BUT NOT PROPULSION

RENEWABLE ENERGY

HOW TO GET VALUE???

ENERGY SECURITY | **ENERGY EFFICIENCY**

2050

DEFENCE ENERGY TRANSITION OFFICE

BUSHMASTER ELECTRIC DIESEL

RESILIENCE INDEPENDANCE

FAST FOLLOWERS

AUSTRALIA'S ONLY RENEWABLE ENERGY 80% EXPORTED

BIO MASS SUGARCANE INDUSTRY

ENERGY IS A CAPABILITY ENABLER NOT JUST A COMMODITY

NEW ENERGY FIRST STEP ENERGY EFFICIENCY NOT MORE GENERATORS!

LAND LOCKED TERRITORIES IN DEVELOPING NATIONS LACK ELECTRICITY

AFRICA

BRINGING BATTERY PRODUCTION BACK TO USA

LIQUID PETROLEUM IS HERE TO STAY - BUT - HOW DO WE MOVE AND STORE IT? - HOW CAN WE CREATE OUR OWN?

CHINA'S INFLUENCE OVER RAW MATERIALS

OPEN DOOR POLICY

NOT FOR US

KNOWING WHEN TO SAY NO

WHAT IS RIGHT FOR THE BATTLEFIELD? A MIX OF TECHNOLOGY IS BAD

WHERE DO THEY MEET?

INDUSTRY | **MILITARY**

WAR IN UKRAINE HAS CHALLENGED EVERYTHING

ENERGY RISK

- GEO-POLITICAL
- TECHNOLOGICAL
- ENVIRONMENTAL
- NORMATIVE
- HYBRID

ENERGY AS AN ASSET

LONGER TERM UNITED POLICY

NEW SYSTEMS ALONG SIDE EXISTING FUEL SOURCES

SINGLE FUEL POLICY STILL RELEVANT

LAND | **AIR** | **SEA**

HYBRID THERMIC | **SAT** | **HYBRID THERMIC** | **ALTERNATIVE MATERIALIZATION FUELS**

RECOMMENDED DIRECTION UNDER REGULAR REVIEW

INTERNATIONAL COLLABORATION TO CREATE RECOMMENDATIONS TO NATO

NATO CANNOT DICTATE ENERGY POLICY TO INDIVIDUAL NATIONS

MOVE AWAY FROM SINGLE FOSSIL FUEL POLICY

ENERGY PRODUCTION SECURITY

FRENCH OPERATIONAL ENERGY STRATEGY

WENEED MORE! WHERE & WHEN IT'S NEEDED

PUTIN UNWITTINGLY FORCE AN ENERGY REVOLUTION

ENERGY IS AND ALWAYS WILL BE ESSENTIAL TO ANY MILITARY

EVER MORE DENSE

TO SAVE THE WORLD

25 YEARS

ENERGY AS COMMODITY | **THE FUTURE ENERGY AS CAPABILITY**

WRONG X | **RIGHT (ENOUGH) ✓**

RESET THE PARADIME

"MAINTAIN THE SUPPLY CHAIN"

FROM NAPOLEON TO MONTGOMERY TO CHURCHILL TO THE PRESENT DAY

INDUSTRIAL BASE | **CRITICAL MINERALS** | **TOLERATING RISK**

CLIMATE RISK ON A PAR | **STRATEGIC RISK**

FLASHFLOOD | **RISING SEA LEVELS**

EARTHQUAKE | **INCREASED HUMIDITY**

MASS MIGRATION | **HOW DO PEOPLE COPE?** | **HOW DOES EQUIPMENT COPE?**

STRATEGY IMPLEMENTATION

ROAD MAP RECOMMENDATIONS + INFORMATION TO INFORM CHOICES

WHAT ARE OUR ADVERSARIES UP TO?

WHAT DOES THE WORLD LOOK LIKE?

2035 | **2045** | **2055** | **2065** | **2075**

CHANGING ENVIRONMENT INFLUENCES OPERATIONAL CHANGE

WHAT IS MOD ROLE?

INDUSTRY | **MOD** | **GOVERNMENT** | **DOMESTIC CIVILIAN**

NO ONE IS WORKING IN ISOLATION

INCREASING MIX OF OPTIONS

CLIMATE CHANGE IS THE DRIVER BEHIND EVERYTHING

REFINERIES | **PROFIT VS LOCATION** | **IMPACT ON MOD**

MULTINATIONAL COMPANIES

CIRCULAR ECONOMY

ENERGY CHOICE

OPERATIONAL ENERGY STRATEGY

OPERATIONAL CHANGE

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