

Sanayide enerji verimliliđi uygulamaları ve Ekodizayn Tebliđi

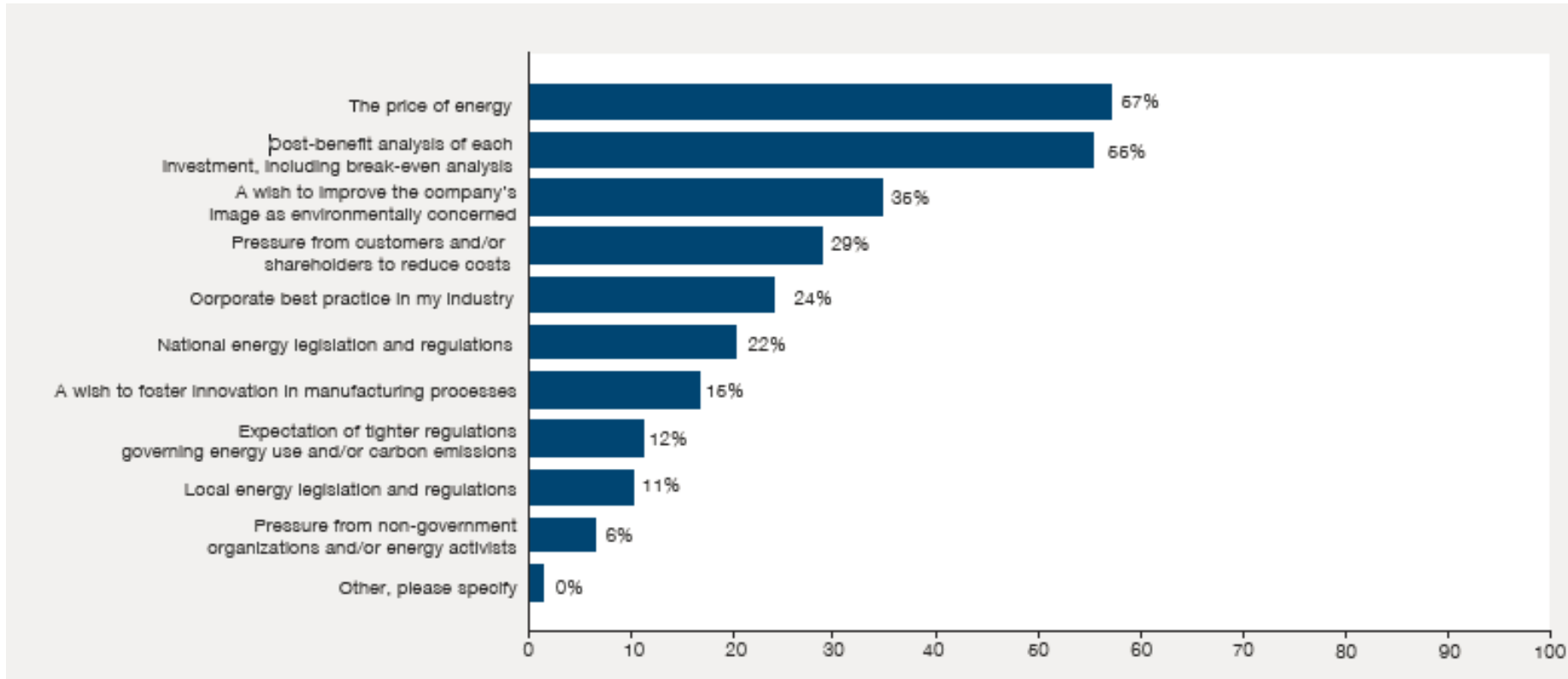
Dikmen Pehlivan

ABB Elektrik Motor ve Generatör Bölümü



Üretim faaliyetleri, global enerji tüketiminin üçte birini oluşturması nedeni ile enerji verimliliği çalışmalarının merkezinde bulunmaktadır.

— Enerji verimliliği çalışmalarını için temel sebepler



— Motor ve sürücü potansiyel kazanç

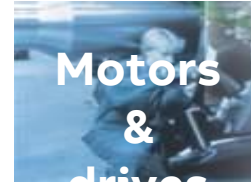
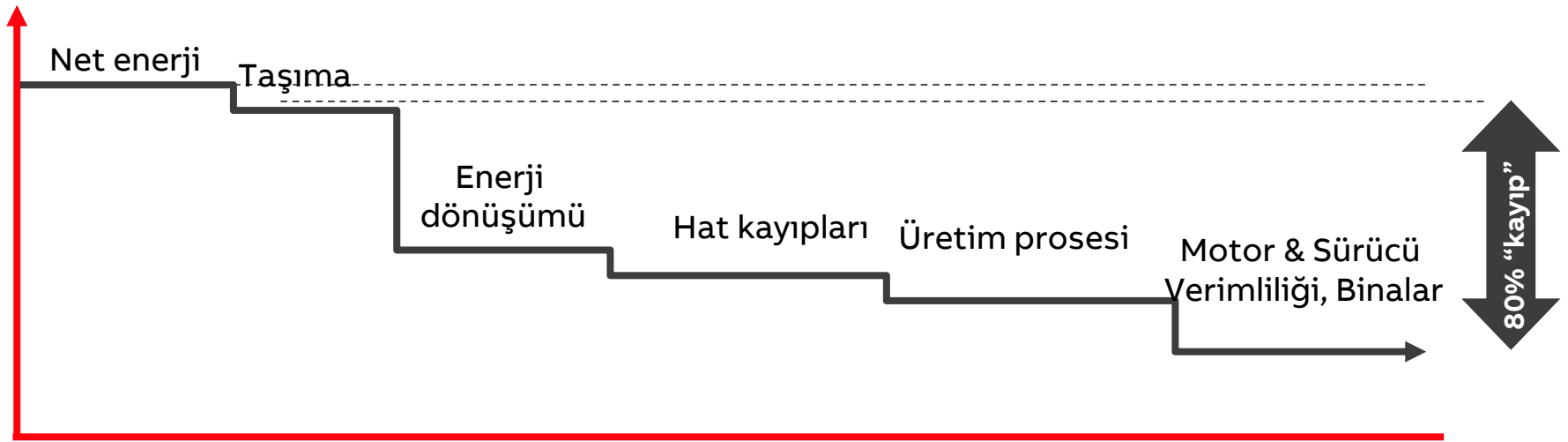
Source: IEA Energy
Technology
Perspective

Technologies	2015	2030	2050	Gt CO ₂ /year
Co-generation technologies	★	★★	★★	0.3
Motor systems	★★	★★★	★★★★	1.5
Steam systems	★	★★	★★	0.3
Energy efficiency in existing basic materials production processes	★★	★★	★★★★	0.4
Process innovation in basic materials production processes		★	★★	0.2
Fuel substitution in basic materials production processes		★★	★★★★	0.5
Materials/product efficiency		★	★★	0.3
Feedstock substitution		★★	★★★★	0.4
CO ₂ capture and storage		★★	★★★★	1.5

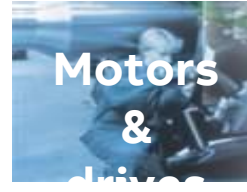
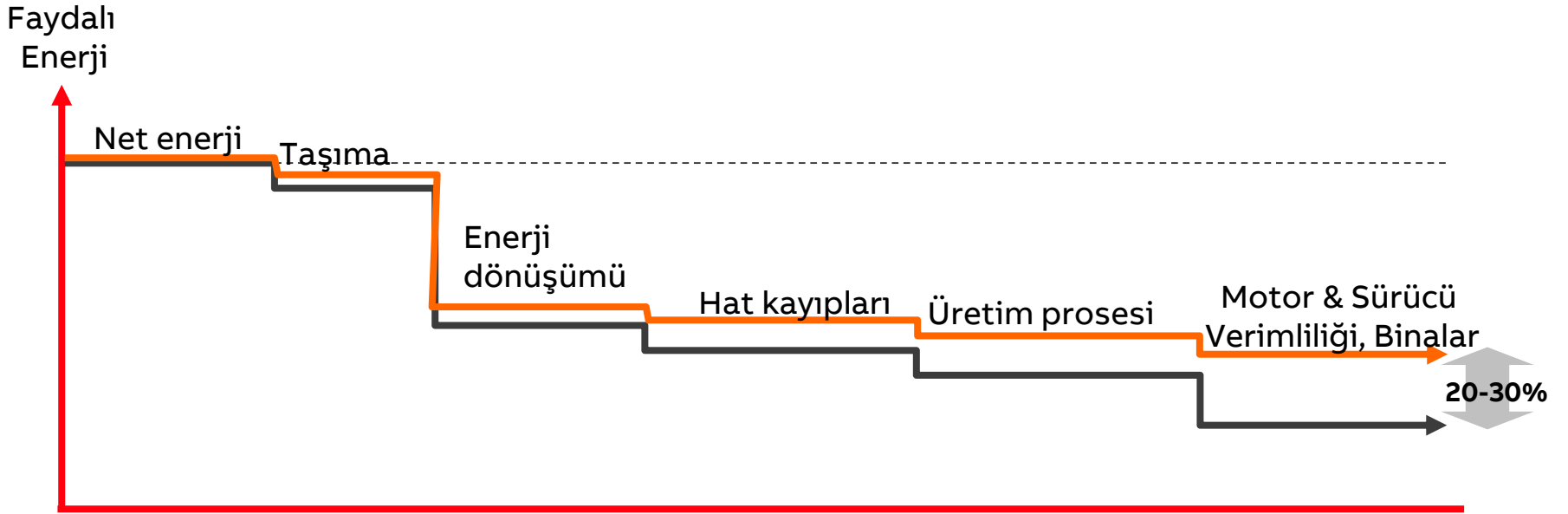
Note: The reductions are illustrated by a category ★ (< 0.1Gt CO₂/yr of the total reduction), ★★ (between 0.1 – 0.3 Gt), ★★★ (between 0.3 – 1 Gt), ★★★★ (>1Gt).

— Kaynaktan son kullanıcıya enerji kayıpları

Faydalı Enerji

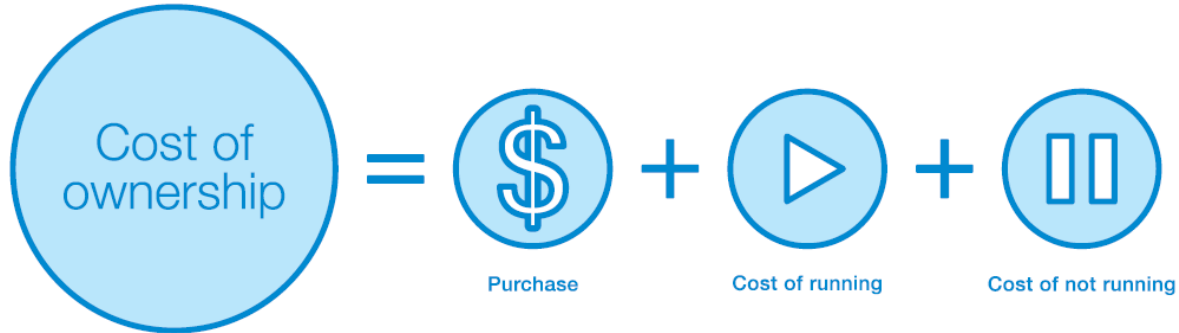


- ABB zincirinin her basamağında enerji kayıplarının azaltılmasına katkıda bulunur.



— Cost of ownership – Enerji verimliliğinden fazlası

Uzun Vadeli düşünün



Sahip olunan ürünün tüm hayatı boyunca size maliyeti nedir? Ucuz motor her zaman en iyi satınalma değildir!

— Nasıl daha fazla kazanırız?



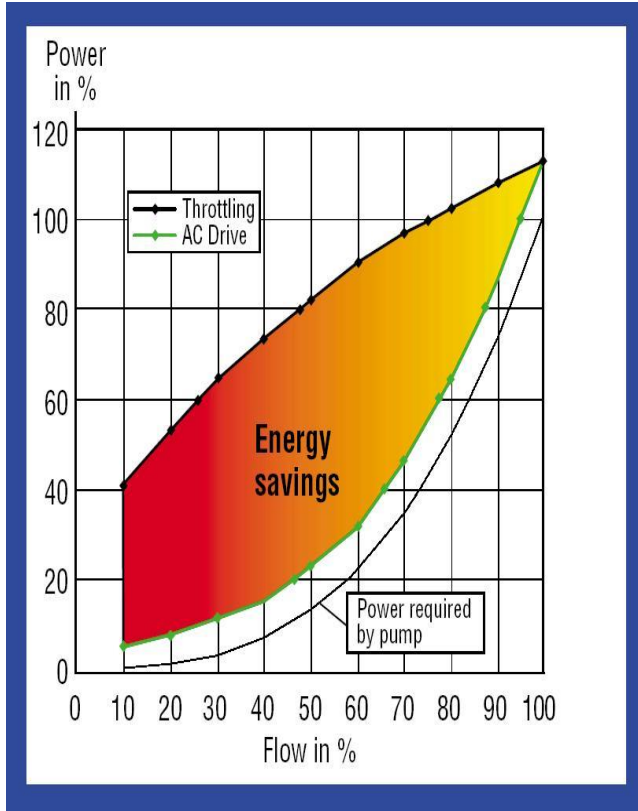
- Yeni malzemeler için en yüksek verim zorunluluđu
- Mevcut düşük verimli motorların planlanan son tarihten önce kullanımdan kaldırılması
- Enerji yönetimi planı yapılması ve uygulanması

— Enerji verimliliği için başlangıç noktaları



- Doğrudan şebekeye veya Yıldız-Üçgen bağlı sabit hızlı motorlar
- Kayış-kasnak ile kullanılan motorlar
- Fan, pompa gibi sürekli çalışan uygulamalarda kullanılan motorlar

— Prosesi kontrol ederek kazanç sağlayın Sürücü ile kullanılan motorlar



Sürücüler motor hızını en iyi şekilde kontrol ederek en etkili enerji kazancını sağlar. Verimli motor – sürücü sistemi

- Proses kontrolü
- Proses optimizasyonu
- Prosesin tamamında enerji kazancı sağlar.

— ABB Enerji Verimliliği Sayfası

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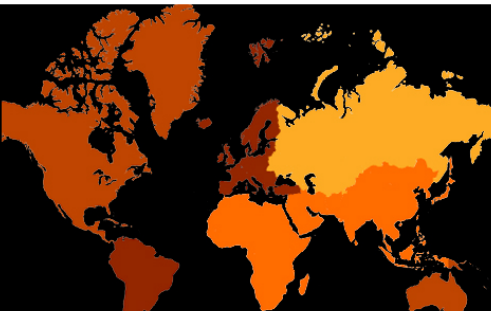
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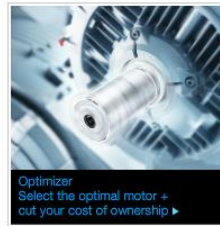
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Energy efficiency requirements worldwide

Electric motors are the single biggest consumer of electricity and account for about 45% of global power consumption. As huge savings can be achieved by using higher efficiency motors, several countries have introduced energy saving programs to specify Minimum Efficiency Performance Standard (MEPS) levels for motors.

ABB offers low voltage electric motors both in IEC and NEMA design according to the various MEPS, energy saving programs and schemes worldwide. With ABB's new tool - the Optimizer - you can choose the optimal motor for any MEPS in force in different regions and get easy access to all the necessary documentation.



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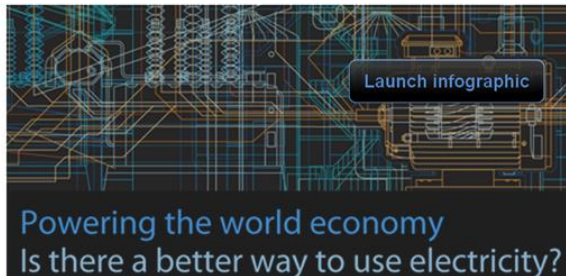
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- Tebliđ ile neler deđiřti?
- Katkısı nedir?



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