

Dynamic Energy

The Architech (Gabriel Breton-Breault)

Motion, Interaction, and Transformation of Energy Manifestation

Introduction

The $E = \infty$ model establishes a fundamental distinction between **the state of energy** and **its observable quantity**.

The expression:

$$E = \infty$$

describes the fundamental state attributed to energy within the model, and not an infinite quantity of energy.

However, quantity and state alone are not sufficient to fully describe the behavior of energy when it participates in a physical system in motion.

Energy can move, interact with other energy manifestations, be confined, change direction, become concentrated, or participate in the transformation of a system. These interactions can modify the observed physical effect without requiring the creation of new fundamental energy.

This property is defined within the present model as:

Dynamic Energy

Dynamic energy represents **the manifestation of energy when considered through its motion and interactions**.

It therefore introduces a third level of description:

$$E = \infty$$

State of Energy

$$Q_E$$

Quantity of Energy

$$E_D$$

Dynamic Energy

Dynamic energy therefore does not mean that energy appears from nothing. Rather, it describes how an existing quantity of energy can produce a different physical manifestation depending on its dynamics, motion, confinement, and the interactions in which it participates.

This distinction follows the general principle established previously:

Nothing is lost, nothing is created. Energy is redistributed, divided, added, confined, and transformed. Its motion and interactions then determine its dynamic manifestation.

The purpose of this document is therefore to examine **energy in motion**, its behavior during interactions, and the manner in which dynamic energy may evolve without altering the fundamental principle:

$$E = \infty$$

Chapter 1: The Motion of Energy

1.1 Principle of Energy Motion

Within the dynamic energy model, energy must not be considered solely according to its state and quantity. Its **motion** also constitutes a fundamental property of its physical manifestation.

The model retains the principle:

$$E = \infty$$

where infinity represents the state of energy and not its quantity.

The manifested energy quantity is represented by:

$$Q_E$$

When this energy enters into motion or participates in an interaction, a third property must be considered:

$$E_D$$

where E_D represents **dynamic energy**.

Dynamic energy therefore describes how a quantity of energy manifests its physical effect when it moves, interacts, or changes its organization.

1.2 Motion and Dynamic Energy

The same quantity of energy can be considered under different dynamic conditions.

Motion does not necessarily mean that new fundamental energy is created.

Rather, it modifies **the dynamic state of the energy manifestation**.

The principle can be represented conceptually as:

$$Q_E + \text{Motion} \rightarrow E_D$$

This expression does not yet constitute a quantitative equation. It represents the proposed conceptual relationship between energy quantity and its dynamic behavior.

Dynamic energy therefore depends on the behavior of energy within the system being considered.

1.3 Dynamic Energy Does Not Create Energy

An increase in a dynamic effect must not be interpreted as the creation of energy.

The previously established principle remains:

Nothing is lost, nothing is created.

Within the model, an increase in dynamic energy instead constitutes a modification in the way existing energy manifests itself.

Thus:

$$E = \infty$$

remains the fundamental state;

$$Q_E$$

remains the quantity being considered;

while:

$$E_D$$

can evolve according to dynamic conditions.

A distinction must therefore be made between:

Increase in Quantity

and:

Increase in Dynamic Manifestation

These two phenomena do not represent the same thing within the model.

1.4 Energy in Interaction

Motion becomes particularly important when several energy manifestations interact.

Consider two manifestations:

$$Q_1 \text{ and } Q_2$$

Their interaction can modify their dynamic manifestations without necessarily modifying the total quantity considered:

$$Q_T = Q_1 + Q_2$$

However, the behavior of the resulting system can depend on:

- motion;
- direction;
- concentration;
- confinement;

- configuration;
- interactions between its components.

Dynamic energy therefore constitutes **a property of the interacting manifestation**, not a new source of energy.

1.5 Motion and Redistribution

When an energy manifestation moves from one region to another, a local decrease may appear in the first region while an increase appears in the second.

Within the model, this situation constitutes a **redistribution**.

Conceptually:

$$Q_A \rightarrow Q_B$$

Region *A* loses a local energy manifestation.

Region *B* receives that manifestation.

But energy was not destroyed in *A* and then created in *B*.

It moved.

Motion therefore constitutes an essential mechanism for understanding how energy can change its manifestation without violating the principle:

Nothing is lost, nothing is created

1.6 Directional Motion

Within the proposed framework of directional physics, motion also possesses a direction.

This direction participates in the organization of the energy manifestation.

Energy evolving along a given direction may interact differently with another manifestation according to:

- their respective directions;
- their point of interaction;
- their configuration;
- their confinement;

- their relative motion.

It then becomes possible to write conceptually:

$$E_D = f(Q_E, M, D, I, C)$$

where:

- Q_E represents the energy quantity;
- M represents motion;
- D represents direction;
- I represents interactions;
- C represents confinement.

This expression constitutes a **conceptual function of the model**. The precise quantitative relationship between these variables must be defined separately.

1.7 Variation of Dynamic Energy

Dynamic energy can therefore increase or decrease according to the configuration of the system without necessarily meaning that fundamental energy has been created or destroyed.

Thus:

$$E_{D1} \neq E_{D2}$$

may be possible even when the fundamental state remains:

$$E = \infty$$

The variation concerns the **dynamic manifestation**.

The proposed principle therefore becomes:

The energy state remains, the quantity is redistributed, and the dynamic manifestation evolves with motion and interactions.

1.8 Relationship with Dynamic Mass

The concept of dynamic energy can also be associated, within the model, with the concept of **dynamic mass**.

The general idea is that an interaction does not necessarily have to be described solely from the static properties of a system.

Motion and interactions can modify its observable physical behavior.

Dynamic energy and dynamic mass therefore become two complementary expressions of an evolving system.

Conceptually:

$$\boxed{\text{Dynamic Energy} \leftrightarrow \text{Dynamic Mass}}$$

This relationship must nevertheless be defined precisely in order to establish which variables connect the two concepts.

1.9 Three Levels of Description

The model therefore produces three distinct levels:

State

$$\boxed{E = \infty}$$

The fundamental state of energy remains infinite.

Quantity

$$\boxed{Q_E}$$

The quantity represents the measurable energy manifestation.

Dynamics

$$\boxed{E_D}$$

Dynamic energy represents the behavior of this manifestation when it is in motion and interaction.

The general structure therefore becomes:

$$\boxed{E = \infty \rightarrow Q_E \rightarrow \text{Motion} \rightarrow \text{Interaction} \rightarrow E_D}$$

1.10 General Principle of Energy Motion

The first principle of dynamic energy can ultimately be formulated as follows:

Energy retains its fundamental state, while its quantity can be redistributed and its dynamic manifestation can evolve according to motion, direction, confinement, and interactions.

Thus:

$$\boxed{E = \infty}$$

describes the state,

$$\boxed{Q_E}$$

describes the quantity,

and:

$$\boxed{E_D}$$

describes the dynamic manifestation.

Dynamic energy therefore does not necessarily introduce a new quantity of energy.

It introduces **a new way of describing the behavior of energy when it is no longer considered as an isolated and static manifestation, but as a manifestation in motion and interaction.**

Chapter 2: The Interaction of Energy

2.1 Principle of Interaction

Dynamic energy appears when energy is no longer considered solely as an isolated quantity, but as a manifestation capable of moving and interacting with other manifestations.

The fundamental principle remains:

$$\boxed{E = \infty}$$

where infinity represents **the state of energy and not its quantity**.

The observable quantity is represented by:

$$\boxed{Q_E}$$

and its dynamic manifestation by:

$$\boxed{E_D}$$

When one energy manifestation interacts with another, its dynamic behavior can evolve even though no new fundamental energy is created.

2.2 Interaction Does Not Create Energy

Consider two energy manifestations:

$$Q_1 \text{ and } Q_2$$

The total quantity being considered can be represented by:

$$Q_T = Q_1 + Q_2$$

The interaction between Q_1 and Q_2 can modify their organization, motion, or dynamic manifestation.

This does not mean:

$$Q_T \rightarrow Q_T + Q_{\text{created}}$$

The apparent additional energy must therefore not necessarily be interpreted as the creation of energy.

Within the dynamic energy model:

Interaction modifies the manifestation of existing energy rather than creating new energy.

2.3 Constructive Interaction

Two energy manifestations can interact in a way that reinforces the observed physical effect.

Conceptually:

$$E_{D1} + E_{D2} \rightarrow E_{D \text{ resulting}}$$

The result can present a greater dynamic manifestation than that observed separately for each component.

The resulting dynamic energy therefore depends on the configuration of the interaction.

This increase in effect does not mean that the fundamental energy state has increased.

It remains:

$$E = \infty$$

The increase concerns **the dynamic manifestation of the system**.

2.4 Opposing Interaction

Two manifestations can also exhibit opposing dynamic behaviors.

The observable result may then be reduced, redirected, or redistributed.

This apparent decrease does not constitute the destruction of energy.

The quantity can still exist within the system in another form of manifestation or distribution.

Thus:

$$\text{Decrease in Observed Effect} \neq \text{Destruction of Energy}$$

The principle:

Nothing is lost, nothing is created

therefore remains compatible with different intensities of dynamic manifestation.

2.5 Direction of Interaction

Within the directional model, the orientation of energy manifestations constitutes an important variable.

Two identical quantities can produce different manifestations depending on their relative directions.

Conceptually:

$$E_D = f(Q_E, M, D, I, C)$$

where:

- Q_E represents the energy quantity;
- M represents motion;
- D represents direction;
- I represents interaction;
- C represents confinement.

Direction does not necessarily add a new quantity of energy.

It contributes to determining **how the existing quantity produces its physical effect.**

2.6 Relative Motion

Interaction must also be considered according to the relative motion of the manifestations.

Two manifestations can:

- move in the same direction;
- move in opposite directions;
- cross each other;
- converge;
- diverge;
- evolve at different velocities;
- encounter a common confinement.

These configurations can modify the way energy manifests dynamically.

Dynamic energy therefore becomes inseparable from the relationship between **motion and interaction.**

2.7 Interaction and Confinement

Confinement can modify the conditions under which several energy manifestations interact.

An energy quantity present within a given space can be redistributed or concentrated according to the geometry of the confinement.

Conceptually:

$$Q_1 + Q_2 + \cdots + Q_n \rightarrow C$$

The confinement C then imposes a common organization upon the manifestations.

The observed dynamic energy becomes a property of the resulting system:

$$E_D = f(Q_T, M, D, I, C)$$

Confinement does not create the energy quantity.

It modifies **the conditions under which that quantity can manifest itself**.

2.8 Dynamic Energy as a Collective Effect

A dynamic energy manifestation does not necessarily have to be considered only element by element.

Several manifestations can form a collective behavior.

The system:

$$Q_1 + Q_2 + \cdots + Q_n$$

can present a resulting dynamic state:

$$E_{DT}$$

whose behavior depends on the complete set of interactions.

This leads to the following principle:

The dynamic energy of a system depends not only on the energy quantities present, but also on the way those quantities move, organize themselves, and interact.

2.9 Transformation Without Creation

Interaction can produce a significant transformation of the system without requiring the creation of energy from nothing.

The general process can be represented by:

$$Q_E \rightarrow \text{Motion} \rightarrow \text{Interaction} \rightarrow \text{Transformation} \rightarrow E_D$$

The transformation concerns the manifestation.

The energy state remains:

$$E = \infty$$

The quantity is redistributed.

The dynamics evolve.

2.10 General Principle of Energy Interaction

The second principle of dynamic energy can ultimately be expressed as follows:

When several energy manifestations interact, their motion, direction, organization, and confinement can modify the resulting dynamic effect without requiring the creation or destruction of fundamental energy.

It then becomes possible to clearly distinguish:

$$E = \infty$$

Energy State

$$Q_E$$

Energy Quantity

$$E_D$$

Dynamic Energy Manifestation

The structure of the model therefore becomes:

$$E = \infty \rightarrow Q_E \rightarrow \text{Motion} \rightarrow \text{Interaction} \rightarrow \text{Dynamic Energy}$$

Thus, **dynamic energy is not additional energy that has been created.**

Within the framework of the proposed model, it represents **the manifestation resulting from the motion and interactions of existing energy.**

Chapter 3: $E = Mc^2$, the Dynamic Equation

3.1 Principle of the Dynamic Equation

The relationship:

$$\boxed{E = Mc^2}$$

establishes a direct relationship between energy E and mass M .

Within the dynamic energy model, this relationship is interpreted as a **reciprocal dynamic relationship**:

$$\boxed{E \leftrightarrow M}$$

Thus:

A modification of energy modifies the mass associated with the system, while a modification of mass leads to a modification of the energy associated with the system.

This interpretation therefore does not consider E and M as two completely independent properties.

They represent two related manifestations of the same physical system.

3.2 Reciprocal Relationship

The equation can be read in both directions.

Starting from:

$$E = Mc^2$$

mass can be expressed as:

$$M = \frac{E}{c^2}$$

There is therefore a direct mathematical relationship:

$$E \rightarrow M$$

and:

$$M \rightarrow E$$

Within the proposed dynamic interpretation:

$$\Delta E \leftrightarrow \Delta M$$

A variation in one affects the other.

It is this reciprocity that constitutes the foundation of **the dynamic equation**.

Conventional physics already recognizes mass-energy equivalence through $E = mc^2$, while the more general relativistic relationship between energy, mass, and momentum is used when a system has non-zero momentum.

3.3 Dynamic Energy and Dynamic Mass

The concept of dynamic energy introduced previously can then be related to the concept of dynamic mass.

The system can be described by:

$$E_D$$

for dynamic energy, and:

$$M_D$$

for dynamic mass.

The conceptual principle becomes:

$$E_D \leftrightarrow M_D$$

Interactions, motion, confinement, and energy redistribution can modify the dynamic manifestation of the system.

Within this framework, a modification of dynamic energy is associated with a corresponding modification of dynamic mass.

3.4 Variation of Energy

If the energy of a system varies:

$$E_1 \rightarrow E_2$$

then the corresponding masses can be represented by:

$$M_1 = \frac{E_1}{c^2}$$

and:

$$M_2 = \frac{E_2}{c^2}$$

The variation becomes:

$$\Delta E = E_2 - E_1$$

and:

$$\Delta M = M_2 - M_1$$

which gives:

$$\boxed{\Delta E = \Delta M c^2}$$

Within the dynamic model:

Modifying energy therefore means modifying the corresponding energy-related mass of the system.

This notation is also compatible with the conventional use of $\Delta E = \Delta mc^2$ to relate a variation in mass to released or absorbed energy.

3.5 Variation of Mass

The process can also be read in the opposite direction.

If:

$$M_1 \rightarrow M_2$$

then:

$$E_1 = M_1 c^2$$

and:

$$E_2 = M_2 c^2$$

The variation in mass therefore corresponds to:

$$\boxed{\Delta M = \frac{\Delta E}{c^2}}$$

The model thus introduces a bidirectional relationship:

$$\boxed{\Delta E \rightleftharpoons \Delta M}$$

Mass and energy therefore become two related variables whose variations must be considered together.

3.6 Motion and the Dynamic Equation

Motion, however, adds another dimension to the problem.

For a system in motion, relativistic physics uses the energy-momentum relationship:

$$\boxed{E^2 = p^2 c^2 + m^2 c^4}$$

where p represents momentum and m represents invariant mass.

Within the proposed model, this makes it possible to distinguish:

- the energy state;
- the energy quantity;
- motion;
- dynamic energy;
- dynamic mass.

Motion therefore participates in the way energy and mass manifest themselves within the system being considered.

3.7 Dynamic Interaction

When several energy manifestations interact, their effects must not be studied solely as independent quantities.

Interactions can modify:

$$E_D$$

and, within the proposed model, this modification must be considered jointly with:

$$M_D$$

The conceptual structure then becomes:

$$\boxed{\text{Interaction} \rightarrow \Delta E_D \leftrightarrow \Delta M_D}$$

The dynamic equation thus becomes a link between the energy and mass transformations of the system.

3.8 Conservation and Transformation

Dynamics does not mean that energy or mass-energy appears from nothing.

The previously established principle remains:

Nothing is lost, nothing is created.

A local variation may correspond to:

- a transfer;
- a redistribution;

- an interaction;
- a change in confinement;
- a transformation;
- an emission or absorption.

The dynamic equation then serves to track **the relationship between manifestations of mass and energy during this transformation.**

3.9 Relationship with $E = \infty$

The dynamic equation does not replace the principle:

$$\boxed{E = \infty}$$

Within the proposed framework, the two expressions describe different levels.

$$E = \infty$$

Describes **the fundamental state attributed to energy.**

$$E = Mc^2$$

Describes **the proposed dynamic relationship between energy and mass.**

Thus:

$$\boxed{E = \infty}$$

concerns the state, while:

$$\boxed{E \leftrightarrow M}$$

concerns the relationship between the physical manifestations of the system.

This distinction makes it possible to preserve the structure established previously:

$$\boxed{\text{State} \rightarrow \text{Quantity} \rightarrow \text{Motion} \rightarrow \text{Interaction} \rightarrow \text{Dynamics}}$$

3.10 General Principle of the Dynamic Equation

The central principle of this chapter can ultimately be formulated as follows:

Within the dynamic energy model, energy and mass are considered two reciprocally related properties. A variation in energy corresponds to a variation in the associated mass, and a variation in mass corresponds to a variation in the associated energy.

The fundamental equation then becomes:

$$E = Mc^2$$

and its dynamic interpretation:

$$E \leftrightarrow M$$

followed by:

$$\Delta E \leftrightarrow \Delta M$$

Motion and interactions provide the conditions under which these dynamic manifestations evolve.

The proposed principle can therefore be summarized as:

$$E = \infty \rightarrow Q_E \rightarrow E_D \leftrightarrow M_D \rightarrow \text{Physical Manifestation}$$

The dynamic equation therefore does not describe only a numerical correspondence between mass and energy. **Within the proposed model, it represents the reciprocal relationship through which any modification of one must be considered together with the corresponding modification of the other.**

General Conclusion

The **dynamic energy** model proposes considering energy not only according to its quantity, but also according to its **motion, direction, confinement, and interactions**.

The starting point remains:

$$E = \infty$$

Within this framework, infinity characterizes **the fundamental state of energy**, rather than an infinite quantity of energy.

The observable energy quantity remains represented by:

$$Q_E$$

while the dynamic expression of this energy is represented by:

$$E_D$$

The model therefore distinguishes three levels:

$$\text{State} \rightarrow \text{Quantity} \rightarrow \text{Dynamics}$$

Energy in Motion

An energy quantity is not necessarily static.

It can move, change direction, be transferred, become confined, and participate in various interactions.

Motion therefore becomes an element of the energy manifestation.

Redistribution does not constitute the disappearance of energy. A local increase does not necessarily mean that new energy has been created.

The principle remains:

Nothing is lost, nothing is created. Energy is redistributed and transformed.

Energy in Interaction

When several energy manifestations interact, their collective behavior may differ from that of the manifestations considered separately.

The model therefore proposes:

$$E_D = f(Q_E, M, D, I, C)$$

where Q_E represents the energy quantity, M motion, D direction, I interactions, and C confinement.

This relationship remains conceptual until a precise quantitative function is defined.

Nevertheless, it expresses the fundamental idea of the model:

The dynamic effect of energy depends on the way energy is organized and brought into interaction.

$E = Mc^2$, the Dynamic Equation

This logic ultimately leads to the relationship between energy and mass:

$$\boxed{E = Mc^2}$$

Within the proposed framework, this relationship is interpreted dynamically and reciprocally:

$$\boxed{E \leftrightarrow M}$$

A modification of energy is associated with a corresponding modification of mass, while a modification of mass is associated with a corresponding modification of energy.

The relationship can then be expressed as:

$$\boxed{\Delta E = \Delta Mc^2}$$

and:

$$\boxed{\Delta M = \frac{\Delta E}{c^2}}$$

The concept of dynamic energy is therefore related to that of dynamic mass:

$$\boxed{E_D \leftrightarrow M_D}$$

Mass and energy become two related properties whose manifestations evolve with the dynamics of the system.

Synthesis of the Model

The general structure can ultimately be represented as:

$$\boxed{E = \infty \rightarrow Q_E \rightarrow \text{Motion} \rightarrow \text{Interaction} \rightarrow E_D \leftrightarrow M_D \rightarrow \text{Physical Manifestation}}$$

The state remains.

The quantity is redistributed.

Motion organizes the dynamics.

Interactions modify the manifestation.

Dynamic energy and dynamic mass evolve jointly within the proposed framework.

Thus, **dynamic energy does not constitute an additional creation of energy**. It represents the way existing energy manifests its effects through motion, direction, confinement, and interaction.

The general principle can ultimately be formulated as follows:

Energy retains its fundamental state, its quantity is redistributed, and its dynamic manifestation evolves. Mass and energy remain related: modifying one implies a corresponding modification of the other.

$$E = \infty$$

describes **the state**.

$$Q_E$$

describes **the quantity**.

$$E_D$$

describes **the dynamics**.

And:

$$E_D \leftrightarrow M_D$$

expresses, within the proposed model, **the dynamic relationship between energy and mass**.